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# Technical Experience

***Client:* Calgary Airport Authority**

*Industry:* Transportation

*Duration:* May 2018 - Dec 2018

*Project*: Key Performance Indicators/Career Portal/Application Rationalization

*Position:* .NET Developer/Integration Developer

*Project Description:* Several projects including integrating data sources to power BI dashboards and developing a career portal website with backend database.

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| --- | --- |
| Technologies | Responsibilities |
| * C#, ASP.NET * SSIS * SSRS * SQL Server * Microsoft Excel * Microsoft Access * XML/HTML * Stored Procedures/Views * Data Flow * IIS * Webmail * Recaptcha * Windows Services | * Requirements Gathering * Design Documents * .NET Development * Interfacing with the Business * Meeting with Users * Usability * Unit Testing * GUI Design * SQL/Stored Procedure writing |

***Client:* TransAlta Utilities**

*Industry:* Energy

*Duration:* Jun 2017 - March 2018

*Project*: Energy Trading

*Position:* Sr. .NET Developer/Report Developer/ Database Developer

*Project Description:* Several projects including a client/server app with DexExpress components that was calculation heavy, a database conversion with ORACLE and SQL Server, HoloLens R&D, and a report system conversion with SSRS

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| --- | --- |
| Technologies | Responsibilities |
| * Agile * C#, ASP.NET * Visual Studio .NET * Crystal Reports * SSRS * ORACLE * SQL Server * PL/SQL * Microsoft Excel * HoloLens/ Xamarin/Urhu * Stored Procedures * Data Flow * Team Foundation Server * IIS * Azure | * Requirements Gathering * Design Documents * .NET Development * Interfacing with the Business * Meeting with Users * Report Design and Development * Usability * Unit Testing * GUI Design * SQL/Stored Procedure writing |

***Client:* City of Calgary**

*Industry:* Municipal

*Duration:* Aug 2016 - April 2017

*Project*: Lease/License Management

*Position:* Sr. .NET Developer/Report Developer

*Project Description:* This project used C#, ASP.NET, Microsoft Excel, Active Reports, and Telerik Web Controls to deliver a modern lease/license and grant web application to the business.

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| --- | --- |
| Technologies | Responsibilities |
| * Agile * C#, ASP.NET * Visual Studio .NET * Active Reports * ORACLE * PL/SQL * Microsoft Excel * Batch Processing * CAAF 4 * Team Foundation Server * Agile * MVC * JQuery, Bootstrap * HTML, Javascript * RESTful Web Services | * Requirements Gathering * Design Documents * .NET Development * Test Driven Development * Interfacing with the Business * Meeting with Users * Report Design and Development * Usability * Unit Testing * Web look and Feel |

***Client:*Husky Energy**

*Industry:* Oil and Gas

*Duration:* May 2008 - Aug 2016

*Project*: Risk Based Mechanical Inspection

*Position:* .NET Developer/Report Developer/Support/App Specialist

*Project Description:*This project used VB.NET, ASP.NET, ORACLE and SQL Server Reporting Services to interface and external system and bring reporting functionality to the end user. This project involved management of development on the vendor side as well as on site Husky development. This was a large coordination between teams in various locations across North America.

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2005, 2010) * ASP.NET * Windows Services * Visual Studio .NET (2005,2010) * SQL Server Reporting Services * ORACLE * SQL Server 2005, 2008, 2012 * Stored Procedures * PL/SQL, TSQL (MSSQL) * Big Data * Query Tuning | * Requirements Gathering * .NET Development * Interfacing with the Business * Meeting with Users * Report Design * Meeting/Negotiating with the Vendor * Management of Development across vendor and client initiatives * Usability * Web look and Feel * Unit Testing/Integration Testing |

***Client:*Tapestry Film**

*Industry:* Entertainment/Film

*Duration:*March 2015 - Present

*Project*: Distributed Flow Film Software

*Position:* Software Architect and .NET Developer

*Project Description:*This project used .NET to develop a leading edge way of viewing and navigating new films being made in a new methodology. Significant development went into communication between a sea of desktop applications with mobile devices subscribed to their broadcasts.

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2010) * C# (2017) * Xamarin * Firebase Cloud Messaging * WCF Web Services * Visual Studio .NET (2010) * SQL Server 2010, 2012 * Stored Procedures * DVD/BluRay Manipulation software * MVC * WinForms * REST Web Services * Mobile Development * Javascript, JSON, HTML * API Design | * Project Management * Requirements Gathering * .NET Development * Innovating * Unit Testing |

***Client:*Corvid Development Inc**

*Industry:* Oil and Gas

*Duration:*June 2012 – present

*Project*: Risk Analysis Matrix (R.A.M.)

*Position:* Software Architect and .NET Developer

*Project Description:*This project used VB.NET, XML, and SQL SERVER to develop a fully configurable risk based inspection software package. The program allowed for user-configurable modeling of oil and gas assets to manage the complex calculations of risk analysis

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2010) * XML * Visual Studio .NET (2010) * SQL Server 2010 * Stored Procedures * Big Data | * Project Management * Requirements Gathering * .NET Development * Interfacing with the Business * Meeting with Users * Usability |

***Client:*Corvid Development Inc**

*Industry:* Private

*Duration:*January 2013 – August 2013

*Project*: PrepTracker

*Position:* Software Architect and .NET Developer

*Project Description:*This project used VB.NET, XML, and SQL SERVER to develop software to manage food and supply storage for long term 'preppers'.

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| Technologies | Responsibilities |
| * VB.NET (2010) * XML * Visual Studio .NET (2010) * SQL Server 2010 * Stored Procedures * MVC * WinForms | * Project Management * Requirements Gathering * .NET Development * Meeting with Users |

***Client:*Husky Energy**

*Industry:* Oil and Gas

*Duration:* August 2008 – June 2009

*Project*: Project Management Dashboard

*Position:* .NET/Report Developer

*Project Description:*This project used VB.NET, SQL Server, and Reporting Services to deploy a project management dashboard to upper management

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2005) * C# (2005) * Web Services * Microsoft Excel * Visual Studio .NET (2005) * SQL Server Reporting Services * SharePoint * SQL Server 2005 * Stored Procedures * Query Tuning | * Requirements Gathering * .NET Development * Interfacing with the Business * Meeting with Users * Report Design * Lead Developer in Team * Usability |

***Client:*TransCanada**

*Industry:* Oil and Gas

*Duration:* October 2007 – April 2008

*Project*: Gas Reporting Project

*Position:* .NET/Report Developer

*Project Description:*This project used C#, ASP.NET, and SQL Server Reporting Services to deploy online reports to internal and external clients.

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| Technologies | Responsibilities |
| * C# (2005) * ASP.NET * AJAX * Web Services * Visual Studio .NET (2005) * SQL Server Reporting Services * XML / XSD * SQL Server 2005 * JavaScript * Stored Procedures | * Requirements Gathering * .NET Development * Interfacing with the Business * Meeting with Users * Interface Design * Report Design * User Control Design * Web Look and Feel * Usability * Accessibility * Unit Testing/Integration Testing |

***Client:*GoalGetter**

*Industry:* Networking

*Duration:* April 2007 – Present

*Position:* Architect/Developer

*Project Description:*This project was an interactive goal management system that integrated with outlook. Complex data flows between desktop, outlook, and mobile devices had to be navigated.

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2003 and 2010) * Outlook * Visual Studio 2003 and 2010 * OO Design * Iterative Life Cycle * MS Access * SQL Server 2010 * Visual Control Design * Distributed Computing * MVC * Win Forms * ASP.NET * XML | * Requirements Gathering * .NET Development * Project Management * Integration Analysis * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design * Support * Build and Deployment * Technical Specifications * Release Management * Help File Creation |

***Client:*TransCanada**

*Industry:* Oil and Gas

*Duration:* January 2007 – October 2007

*Project*: Accounting Interface

*Position:* .NET Developer

*Project Description:*This project utilized BizTalk and web services to allow accounting information to flow from one system to another in an automated manner.

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| Technologies | Responsibilities |
| * C# (2005) * Web Services * Visual Studio .NET (2005) * BizTalk 2006 * XML / XSD / XSLT * Oracle * PLSQL | * Requirements Gathering * .NET Development * Schema Design * Interfacing with the Business * Meeting with Users * Interface Design * Build and Deployment * Release Management * Team Lead |

*Project*: Legal Case Management System

*Position:* .NET Developer

*Project Description:*This project was a replacement for an existing system obtained form another entity. It was developed in C# to allow for smooth transition to the support team (as this was their skill set).

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| --- | --- |
| Technologies | Responsibilities |
| * C# (2005) * Visual Studio .NET (2005) * OO Design * MS SQL Server 2003 * Stored Procedures * TSQL * Query Tuning | * Requirements Gathering * .NET Development * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design * Build and Deployment |

*Project*: Skills/Training Management System

*Position:* .NET Developer/Technical Analyst

*Project Description:*This project ported an existing set of software systems from another entity. Analysis was needed to facilitate smooth transition from the originating entity to the client and new systems had to be made to create smooth integration with existing systems. This project required management of diverse teams across North America to ensure development went smoothly.

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| Technologies | Responsibilities |
| * VB.NET (2005) * C# (2003) * ASPX / Web Development * Visual Studio .NET (2003/2005) * OO Design * MS SQL Server 2000/2003 * Stored Procedures * ASP * Visual Interdev * Microsoft Excel | * Requirements Gathering * .NET Development * Integration Analysis * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design (Usability) * Support * Build and Deployment * Technical Specifications * Release Management |

*Project*: Pipeline Audit System

*Position:* Developer/Technical Analyst

*Project Description:*This project ported an existing set of software systems from another entity. Analysis was needed to facilitate smooth transition from the originating entity to the client and new systems had to be made to create smooth integration with existing systems.This project required management of diverse teams across North America to ensure development went smoothly.

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| --- | --- |
| Technologies | Responsibilities |
| * VB.NET (2005) * ASP * Visual Interdev * Visual Studio .NET (2005) * OO Design * MS SQL Server 2000/2003 * Stored Procedures * Microsoft Access * Distributed Computing | * Requirements Gathering * .NET Development * Integration Analysis * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design * Support * Build and Deployment * Technical Specifications * Release Management |

***Client:*Corvid Development Inc.**

*Industry:* Networking

*Duration:* October 2006 – December 2006

*Position:* Architect/Developer/Project Management

*Project Description:*This project was a networking application for contractors. It utilized web services and a SQL Server back end. In essence this is a distributed application.

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| Technologies | Responsibilities |
| * VB.NET * Web Services * Test Driven Development * OO Design * Iterative Life Cycle * MS SQL Server | * Requirements Gathering * Project Management * Database Design * .NET Development * Object Design * Software Architecture * Technical Specifications * Budgeting * Marketing * Usability (GUI Design) |

***Client:*Corvid Media**

*Industry:* Entertainment / Media

*Duration:* May 2006 – October 2006

*Position:* Architect/Developer

*Project Description:*A small press management tool to manage the sales and promotion of books, CD’s, DVD’s including the recent advent of digital distribution. This is an N-Tier windows form application that manages inventory and financials for small publication and production companies. It retrieves digital consumption files from various sites on the internet to monitor digital distribution of MP3’s, PDF’s, etc and uses this information to update financials and notify artists when they are in violation of licensing agreements. The very latest in Object Oriented methodologies was used to architect this application. I was the senior resource on this project responsible for gathering requirements, interfacing with the users and taking the project through the whole life cycle.

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| Technologies | Responsibilities |
| * VB.NET * Test Driven Development * OO Design * Iterative Life Cycle * Microsoft Access * Web Based File Parsing | * Requirements Gathering * Project Management * Interfacing with the Business * Meeting with Users * Database Design * .NET Development * Object Design * Software Architecture |

***Client:* Nexen Canada Inc**

*Industry:* Oil and Gas

*Duration:* August 2004 – September 2006

*Project*: Gas Trading System

*Position:* Sr. .NET Developer

*Project Description:*This project took an existing paper based trading system and converted into an N-Tier windows application which tracked gas trades and integrated this into an openlink system and other systems throughout the company. The latest in OO methodologies and Patterns was used to design and develop this application.

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| Technologies | Responsibilities |
| * VB.NET * Visual Studio .NET * Test Driven Development * OO Design * Iterative Life Cycle * ORACLE * Stored Procedures * TOAD * PL/SQL * Active Directory * Crystal Reports * Active Reports (version 2 and 3) * N-Unit * Infragistics | * Requirements Gathering * .NET Development * Mentoring * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design (Usability) * Support * Build and Deployment * Technical Specifications * Release Management * Team Lead * Unit Testing |

*Project*: Workflow Monitor

*Position:* Sr. .NET Developer/ Architect

*Project Description:*This project monitored workflow and problem areas with gas trades that were coming in from external systems and the internal gas trading system. It worked by interfacing with TIBCO web services. It was security sensitive and different parts of the application and features were turned on and off dependant on users Active Directory groups.

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| Technologies | Responsibilities |
| * VB.NET * Visual Studio .NET * Test Driven Development * OO Design * Web Services * TIBCO * Iterative Life Cycle * Reflection * Active Directory * N-Unit * SOAP | * Requirements Gathering * Interfacing with the Business * Meeting with Users * Database Design * Object Design * GUI Design (Usability) * Support * Build and Deployment * Technical Specifications * Software Architecture * Unit Testing |

*Project*: Oil Trading System

*Position:* Sr. .NET Developer

*Project Description:*This project took an existing paper based trading system and converted into an N-Tier windows application which tracked gas trades and integrated this into an openlink system and other systems throughout the company. The latest in OO methodologies and Patterns was used to design and develop this application. This was an international application so there were many customizable pieces depending on culture and locale.

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| Technologies | Responsibilities |
| * VB.NET * Visual Studio .NET * C# * Test Driven Development * OO Design * Iterative Life Cycle * ORACLE * Stored Procedures * TOAD * PL/SQL * Active Directory * Microsoft Enterprise Libraries * Active Reports (version 2 and 3) * N-Unit | * Database Design * GUI Design * Support * Build and Deployment * .NET Development * Object Design * Technical Specifications * Mentoring |

*Project*: Gas Pricing System

*Position:* Sr. .NET Developer

*Project Description:*The Gas Pricing System allowed users to pull down current gas prices, currency prices, etc from external sources and forecast different pricing curves based on this data and formulas out for up to 25 years.

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| Technologies | Responsibilities |
| * VB.NET * Visual Studio .NET * Test Driven Development * OO Design * Iterative Life Cycle * ORACLE * Stored Procedures * TOAD * PL/SQL * Active Directory * Reuters / DDE * Windows Services * Infragistics * N-Unit | * Database Design * GUI Design (Usability) * Support * Build and Deployment * .NET Development * Object Design * Requirements Gathering * Interfacing with Business * Technical Specifications * Software Architecture * Unit Testing |

*Project*: Time Tracking System

*Position:* Architect / Sr. .NET Developer

*Project Description:*The Time Tracking system allowed users to track time to projects and phases of projects within the oil and gas marketing group. It allowed project managers to track this time and forecast future cost and needs.

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| Technologies | Responsibilities |
| * VB.NET * Test Driven Development * OO Design * Iterative Life Cycle * ORACLE * Stored Procedures * TOAD * PL/SQL * Active Directory * Active Reports (Version 2 and 3) | * Database Design * GUI Design (Usability) * Support * Build and Deployment * .NET Development * Object Design * Requirements Gathering * Interfacing with Business * Meeting with users * Technical Specifications * Software Architecture |

*Project*: Project Management Costing System

*Position:* Architect / Sr. .NET Developer

*Project Description:*This system was an N Tier windows application that was used to compare current costs vs. Budget and Estimated costs on projects. It would notify of over allocation of employees or funds for a given project.

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| Technologies | Responsibilities |
| * VB.NET * Test Driven Development * OO Design * Iterative Life Cycle * ORACLE * Stored Procedures * TOAD * PL/SQL * Active Directory * Active Reports (Version 2 and 3) | * Database Design * GUI Design * Support * Build and Deployment * .NET Development * Object Design * Requirements Gathering * Interfacing with Business * Meeting with users * Technical Specifications * Software Architecture |

***Previous Projects***

*Industry:* Astronomy, Project Management, Electrical Utility, Entertainment, Legal, Telecom, Transportation, Distribution, Banking, Healthcare, Risk, Finance, Education, etc

*Duration:* 1996 – August 2005

*Position:* Sr. Architect/Developer, Senior Developer, Team Lead, Project Manager, Software Architect, Lead Developer, GUI Developer

*Project Description:* This is a summary of projects I worked on prior to 2005

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| Technologies | Responsibilities |
| * VB.NET, C#, Visual Studio.NET * ASP.NET, ASP, JavaScript * Test Driven Development * OO Design * Iterative Life Cycle * MS SQL Server (TSQL) * ORACLE (PLSQL) * Sybase * Astronomical Algorithms * Stored Procedures * Microsoft Access * Visual C++ * Visual Basic 4,5,6 * Delphi * XML, XSL * COM * TOAD * ADO * IIS * Crystal Reports, Active Reports * Embedded VB * Artificial Intelligence * Game Theory * Encryption * MQ Series * Web Objects * WinSock * TCP/IP * FileNet * VBScript * ActiveX Controls * GIS * OLE Automation * Graphics (GDI), DirectX | * Requirements Gathering * Project Management * Technical Specifications * Interfacing with the Business * Meeting with Users * Database Design * .NET Development * Object Design, Object Oriented Development * Software Architecture * Team Lead * Mentoring * GUI Design * Support * Build and Deployment * Release Management * Web Look and Feel * Accessibility * Usability * Unit Testing * Integration Testing |

***Education***

1. Bachelor of Science, Computer Science (management minor). University of Calgary, Calgary, Alberta, 1996.

* Specialties: Artificial Intelligence, Graphical User Interface Design, and Management Information Systems.

# Patents

* NEOP - Nature Emulation Oriented Programming. This is a step beyond traditional object oriented programming that lends itself to artificial intelligence and parallel processing.

### Certifications

1. Xamarin Certified Developer
2. Xamarin Certified Professional
3. Certified Scrum master
4. Microsoft Certified Solutions Developer – VB.NET
5. Microsoft (70-305) VB.NET Web Forms, ASP.NET
6. Microsoft (70-300) - Analyzing Requirements and Defining Solution Architectures
7. Microsoft Certified Application Developer - VB.NET
8. Microsoft (70-306) - VB.NET Windows Forms
9. Microsoft (70-310) - XML, XML Web Services, Windows Services and Server Components
10. Microsoft (70-229) - Designing and Developing SQL Server 2000 Databases
11. Microsoft - Visual Basic 6.0
12. Microsoft - Visual Basic 5.0
13. Microsoft – Visual Basic 4.0
14. Waite Group - VB Script
15. Waite Group – Visual Basic Web Database

### Skills

*Languages and Technologies*

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| --- | --- | --- | --- | --- |
| **Skill** | **Skill Level** | **Years of Experience** | **Last Used** | **Certification** |
| Visual Basic.NET | Expert | 17 | Current | Yes |
| ASP.NET | Expert | 17.5 | Current | Yes |
| Microsoft Visual Basic | Expert | 20 | Current | Yes |
| C# |  | 17.5 | Current | No |
| Xamarin | Intermediate | 1.5 | Current | Yes |
| HoloLens | Beginner | 0.5 | Current | No |
| Web Services | Expert | 7 | Current | Yes |
| Windows Services | Expert | 4.5 | Current | Yes |
| SQL Server Reporting Services (SSRS) | Expert | 11 | Current | No |
| SSIS | Internediate | 2 | Current | No |
| Server Components | Expert | 2 | Current | Yes |
| BizTalk | Beginner | 0.5 | 2008 | No |
| ActiveX Controls | Expert | 4 | 2005 | Yes |
| COM | Expert | 6 | 2008 | Yes |
| Delphi | Intermediate | 3 | 1997 | No |
| Pascal | Expert | 4 | 1997 | No |
| C++,C, Visual C++ | Expert | 3.5 | 1997 | No |
| Windows CGI/Direct X/ Graphics | Intermediate | 4 | Current | No |
| Assembly | Intermediate | 2 | 1996 | No |
| GIS Systems | Intermediate | 2 | 1997 | No |
| SharePoint | Beginner | 1 | 2010 | No |
| TFS | Intermediate | 2 | Current | No |

## Internet

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| **Skill** | **Skill Level** | **Years of Experience** | **Last Used** | **Certification** |
| ASP.NET | Expert | 17 | Current | Yes |
| XML | Expert | 12 | Current | Yes |
| HTML | Expert | 13 | Current | No |
| Web Services | Expert | 6 | Current | Yes |
| VB Script | Expert | 5 | Current | Yes |
| ASP/IIS | Expert | 11 | Current | No |
| JavaScript | Expert | 10 | Current | No |
| XSD | Intermediate | 4 | Current | No |
| JSON | Intermediate | 1.5 | Current | No |

## Databases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Skill** | **Skill Level** | **Years of Experience** | **Last Used** | **Certification** |
| ORACLE | Intermediate | 18.5 | Current | No |
| SQL Server | Expert | 17.5 | Current | Yes |
| Access | Expert | 20.5 | Current | No |
| Sybase | Novice | 1.5 | 1998 | No |

## Platforms

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| --- | --- | --- | --- | --- |
| **Skill** | **Skill Level** | **Years of Experience** | **Last Used** | **Certification** |
| Windows | Expert | 21 | Current | No |
| Unix | Intermediate | 3 | 1997 | No |
| Macintosh Systems | Novice | 2 | 1995 | No |
| Azure | Beginner | 1 | Current | No |

## Soft Skills

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| --- | --- | --- | --- | --- |
| **Skill** | **Skill Level** | **Years of Experience** | **Last Used** | **Certification** |
| Software Architecture | Expert | 13.5 | Current | No |
| Team Lead | Expert | 7 | Current | No |
| Scrum master | Expert | 5 | Current | Yes |
| Requirements Gathering | Expert | 13.5 | Current | No |
| Project Management | Intermediate | 6 | Current | No |
| Database Design | Expert | 14.5 | Current | No |
| Object Design | Expert | 20.5 | Current | No |
| GUI Design | Expert | 16.5 | Current | No |
| Creating Technical Specs | Expert | 12.5 | Current | No |
| Mentoring | Expert | 12 | Current | No |
| Microsoft Project | Intermediate | 6 | Current | No |
| Agile | Expert | 11 | Current | No |