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Full Stack Software Developer

EXPERIENCE

Senior Developer – contractor – AIM: Alaska Airways Group, Non-Revenue Employee Travel

Seattle, WA, July 2018 – October 2018

- Worked on converting Hyperion Brio (.bqy) reports to Alteryx workflows and applications.
- Developed design for reporting model.
- Wrote ETL scripts to move data from Informix database to Sql Server.
- Created the build pipelines for our initial version of the new AZURE function based services.
- Performed root cause analysis on software issues/bugs.
- Wrote c# MVC.NET website code for the Non-Revenue Employee Travel Site.
- Worked with Oracle to SQL Server interfaces involving Microsoft AZURE data factories.
- Administered and configured AZURE resource groups, applications, functions, and other AZURE resources.
- Created a c# program to quickly to table-to-table comparisons to verify load.
- Developed basic Alteryx proof of concept for our new reporting strategy.
- Wrote unit tests and participated in TDD.
- Participated in SCRUM/AGILE.
- Used T-SQL scripts to shape/clean data post ETL.
- Edited and used .SQR scripting language to do ETL and business logic for legacy system.

Senior Developer – contractor – Wicresoft: Microsoft, Universal Store

Seattle, WA, March 2018 to July 2018

- Responsible for researching bugs and conducting root cause analysis.
- Worked on a project to move a .net 2.0 c# web service from a virtual machine environment to an AZURE cloud hosted environment.
- Wrote and managed unit tests using MSTEST.
- Wrote T-SQL scripts for analysis and research.
- Worked on MVC code for an MVC.NET website.
- Used AZURE cloud environment.

Owner/Senior Developer – Neuzult, LLC

Indianapolis, IN, April 2017 to March 2018

- Responsible for writing white papers, articles, dealing with the technical architecture.
- Work collaboratively on marketing plans, project management.
- Developed new crypto-currency strategy.
- Administer, customize, our Word Press sites.
- LINUX Server Administration.
- Working with c/c++/php/BASH.
- Administers MySQL databases.
- MVC .NET Prototype for client side encryption strategy within SSL envelope.
- Worked with Angular to create responsive websites.
- Wrote several articles and a white paper in support of a new crypto-currency.

Software Engineer, Architect, and Product Owner – Edge Document Solutions

Indianapolis, IN, March 2015 to March 2017

- Re-factored several years of code, reducing code-debt significantly.
- Designed systems to securely transfer student documents over the WWW.
- Built reporting APIs which plugged into the STAR reporting format from generalized source data – student tests, demographic data.
- Designed an MVC.NET web portal so that administrators at local school districts could manage their inventory of student reporting.
- Worked with APIs to extract meta-data from PDF documents.
- Worked with C#, Kendo UI, MVC5, jQuery.
- Administered several SQL SERVER databases.
- Responsible for root cause analysis in case of system down time.
- Developed architectural plans for future development.
- Performed technical writing and new product development, to include marketing plans.

Senior Technical Staff – Crowe-Horwath

Indianapolis, IN, May 2014 to Feb 2015

- Software engineer responsible for ASP.NET web development for a major enterprise revenue cycle management system.
- Technical project manager for the deployment of a revenue cycle system – the first time deployed to the WWW. Managed technical risks, coordinated development and configuration. Facilitated activities for a 10 person team.
- Designed/documented healthcare system utilizing a single-page application model, using MVC-4, JQuery, Telerik Kendo UI, bootstrap
- Developed middle tier and server side code for RCA/revenue-cycle website.
- Managed bugs and conducted root cause analysis.
- Some prototyping with node.JS

Contractor/Business Intelligence Developer for Office 365 Team – Redmond, WA, Microsoft (v-dash) via Teleion Consulting

Seattle, WA, September 2013 to April 2014

- Built RESTFUL HTML5 Reporting website using Kendo Dataviz charting (javascript charting).
- Architect for reporting portal and lead developer.
- Wrote MDX to query reporting cubes.
- Utilized agile practices to deliver high-quality applications.
- Responsible for coordinating with internal customers and developing requirements documentation.
- Developed SSRS reports.
- Worked with Office-.net integration.

Contractor/Business Intelligence Developer for BING ADS Support, SSRS, .NET,T-SQL/SQL Server, Microsoft

Seattle, WA, February 2013 to September 2013

- Develop reports for Managers and PM.
- Organized reporting portal.
- Developed dashboards for management.
- Wrote T-SQL and deployed T-SQL Objects to common data mart.
- Designed and deployed data mart.
- Worked on internal .NET 4.0 MVC Website that provided critical reporting data from Bing ADS API.

Data Support Professional and Engineer, T-SQL/SQL Server, Applied Discovery Inc.

Bellevue, WA, August 2012 to October 2012

- Responded to emergencies concerning data flow and search with a terabyte scale e-discovery system
- Responsible for providing expertise and insight into system failure
- Required to write T-SQL scripts, Procedures, Functions and system programming in order to support the remediation of a data data outage for their legal industry customers
- Wrote BASH and other SHELL scripts to perform investigation and root cause analysis of a critical file server infrastructure.
- Worked with SME (Subject Matter Experts) to develop specialized queries for legal industry clients.

Contractor/Software Engineer for COSTCO, (Insight Global)

Issaquah, WA, May 2012 to July 2012

- Developed SSRS based reports and views for Quality Assurance
- Developed HMM (Hidden Markov Model) to analyze defect management processes
- Managed, deployed and architected the Data Mart for QAT (Quality Assurance Team) reporting
- Developed middle tier to support n-tier automated testing architecture
- Worked with IBM Clear Quest and TFS data sources for Business Intelligence
- Developed ETL and transform processes for high transaction databases

Contractor/Software Engineer for LG Consulting, Tideworks Technology

Seattle, WA, September 2011 to May 2012

- Performed root cause analysis.
- Participated in the AGILE development process.
- Developed unit tests to validate defect fixes and enhancements using TDD and NUNIT.
- Worked with ORACLE PL/SQL to retrieve and process transactional data.
- Developed .NET WIN FORMS in Windows 7, XP and CE small form factor devices used at cargo terminals.
- Developed and modified software to work with the 'narrow band' communications system used at many cargo terminals.
- Developed an algorithm for optimally assigning multiple containers to a single 'hustler' (a vehicle used to move containers at a container terminal).
- Worked on a proof of concept for a simple and scalable data warehousing mechanism for the Tideworks ecosystem of transactional systems – initially intended for returning container-history and equipment-history changes/events.
- Worked with middle-tier services which coordinate the work flow for container terminals, rail yards, and inter-modal facilities.
- Developed an alternative and simplified architecture to the current Traffic Control transactional system.

Microsoft Amalga Consultant and HL-7 Interface Engineer, University Of Washington – Harborview Medical Center

Seattle, WA, July 2010 to May 2011

- Develop queries to generate useable data from the Amalga UIS.
- Developed several reports showing treatment metrics for UWMC with respect to cancer screening.
- Work on an exploratory project involving the linkage of genomic data to pharmacy information.
- Design/Develop scripts for automating hospital reports.

- Design/Build SSIS scripts for ETL to Amalga UIS.
- Build Base and User Views in Amalga.
- Build Dashboards in Amalga.
- Organize documentation on the team SharePoint wiki.
- Develop and deploy HL-7 interfaces
- Develop reporting User Controls for SharePoint
- Worked as Affiliated Developer and Research Scientist for a project involving de-identified specimen querying and scheduling of consent for research – i2b2 CBR project. This system is written in JAVA and required knowledge to work with JBOSS and other java related technologies.

Software Engineer/Architect, Enablecomp/Symphony(3)

Nashville, TN and Seattle, WA, 2006 – 2010

- Responsible for managing all software development projects during this time.
- Did project SCOPE and Estimation
- Responsible for managing project communications and meetings
- Responsible for project schedule and deliverables
- Responsible for measuring and reporting on project status
- Develop tools/techniques for text matching and analysis in order to identify the specialty of a provider payee based solely on payee name.
- Developed algorithms to inference medical billing history from medical payment data.
- Developed medical treatment sequence models for financial analysis of medical expenditure.
- Utilized Microsoft technologies to designed and built a medical bill review/re-pricing system which included modules for calculating correct allowed amounts based on Medicare
- Worked with C#, SQL Server 2005, Analysis Services Data Mining, Reporting Services, ASP.NET and Windows Forms
- Used WCF to wrap multi-client server processes.
- Developed interface technology to pull data from Informix and communicate with the MISYS system
- Designed a Medicare based rules engine for accurately calculating the jurisdictional and contractual reimbursement amounts for hospital and physician bills
- Developed predictive system for assigning reasons for underpayment
- Developed a decision support and data mining portal system for an insurance company working with workers' compensation claims (ROSETTA)
- Used Markov models to enhance the ability of our systems to predict whether a healthcare bill will be underpaid and why
- Managed customer requirements and ongoing changes to a system in a production environment
- Utilized agile techniques to manage work
- Experience working on projects with very limited budgets and time frames
- Developed services/middle-tier to support claims management system and smart client interface
- Helped to manage projects, FY 2007 - 2009, with a total combined budget of 250K dollars.

Software Developer and Consultant, Independent

Nashville, TN, 2006

- Helped to design a system to integrate real time healthcare data in a hospital environment
- Worked on a Lab Management System and the reporting process which supported it
- Developed workflow system to support a clearing house
- Worked with C#, SQL Server 2005, Analysis Services, Reporting Services, ASP.NET
- Worked in a team environment
- Utilized SOA to support application integration

Software Engineer, AIM Healthcare

Nashville, TN, 2005-2006

- Helped to build and provide scalability for a major ASP.NET web portal system for managing healthcare claims (ExpressClaim)
- Worked on the architecture, design and programming of a N-Tier claims management system
- Developed algorithms (Markov Techniques) to data mine payer and provider healthcare claims data
- Developed optimal stored procedures and queries in a SQL Server 2005 environment managing over 100 terabytes of data
- Worked with C#, SQL Server 2005, Analysis Services, Reporting Services, ASP.NET
- Worked in a team environment
- Developed SOA tier to support windows apps and middle-tier import processes

Software Developer – Consultant for Various Projects, Robert Half Technology and Volt Technology

Nashville, TN, 2003-2005

- Worked with C#, SQL Server 2005, Analysis Services, Reporting Services, ASP.NET, MySQL, Oracle
- Designed a secure web service for Ingram Book Company allowing online bookstores to incorporate content (pictures and text) into their own websites
- Developed connector objects to allow a .net web service to communicate with an AS400 mainframe system
- Utilized RSA to support secure web services authentication
- Designed and developed alarm management system for large coal burning energy generating facilities
- Developed a web portal to support the Ameristeel foundry in Atlanta, GA and to allow managers to monitor the movement of steel through process
- Developed MS Access Database as a prototype for American Healthways (now Healthways) to help their call centers manage the outcome data for proactive wellness management
- Worked on a team developing a merchant application for TN Farmers Cooperative
- Developed workflow system to manage customer complaints to Central Parking Corporation
- Developed ecommerce functionality for Central Parking Online Permits

Partially Employed/Student, Indiana University

Indianapolis, IN, 2002-2003

Process Improvement Facilitator and Program Administrator – Supply Chain Management, Rolls-Royce, PLC

Indianapolis, IN, 2000-2002

- Developed course content and taught project management and business plan deployment
- Led projects involving logistics and supply chain
- Responsible for project reporting
- Worked on various process improvement projects dealing with cash flow management and logistical demand signal
- Worked on strategies for cost reduction
- Developed training models to communicate a new strategic sourcing initiative
- Worked on root cause analysis and production failure analysis
- Developed tools in MS Access and VBA to analyze SAP reports and data
- Developed tool to make predictions about likely delivery dates for our vendor base
- Designed and built a project management system in MS Access to support time entry and project planning with a user base of 150 people
- Achieved a 1000 man-hour cost savings by implementing a data cleanup tool in support of supply chain management

- Contributed to a project which improved the ordering process and reduced SCM costs by 20% for indirect purchasing
- Developed a Business Plan Deployment process and presented the results of implementation to RR Corporate in Derby, UK, June 2000

Air Defense Officer, US Army

Fort Bliss, Camp Stanley South Korea, Fort Lewis WA, 1994-2000

- Platoon Leader for an short range air defense unit forward deployed in South Korea
- Brigade Staff Officer for 3rd BDE Combat Team
- Observer/Controller for a BDE level evaluation exercise
- Airborne School Graduate
- Armored platoon leader Washington State Army National Guard
- Responsible for managing large scale training events and special projects
- Responsible for reporting on projects and outcomes
- Expected to coordinate with other project managers to gaurantee project success

EDUCATION:

1. BA, History, University of Washington, 1993, Department Honors.
2. MA, History, Central Washington University, 1996, Department Honors.
3. BS, Informatics with minor in Computer Science, 2003