**Andrew McFall III**

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***Summary:***

A seasoned Software Engineer with over 16 years’ experience across all phases of the Software Development Life Cycle. Fluent in both Agile and Waterfall methodologies, has led and contributed to complex projects across diverse business verticals including (but not limited to,) government (State and Federal), Healthcare, and Business Services. A strong background in Database Design allowing for mentoring other developers. Committed to customer service, and delivering high-quality, secure software solutions that meet or exceed expectations.

***Skills/ Abilities***

* Business vs Technical Communication (Geek-to-English)
* Application Lifecycle Management
* Requirements Analysis
* Continuous Process Improvement
* Relational Database Design
* Test Driven Development
* Service Oriented Architecture
* Supervision/Mentorship

***Experience/Accomplishments***

**Software Engineer**

The Computer Merchant, LTD. Boise, ID (Contract, Remote) Nov 2024 – Dec 2024

Software development Contract position using .Net Core 6, MVC & Entity Framework 6 as technology stack for HMIS system development feature set.

**Sr. Application Designer**

Gainwell Technologies, LLC Boise, ID (Remote) Jan 2024 – Jul 2024

**Software Engineer**

The Computer Merchant, LTD. Boise, ID (Contract, Remote) Jun 2023 – Dec 2023

* Analyzed, designed, developed and tested Back-end Web Services for multi-tenant Medicaid Management Information System (MMIS)
* Used Test Driven Development process to maintain continuity when project schedule was cut short by 3 months
* Designed, Tested, and Delivered a Member Login feature for the State of Delaware that allows access to the State of Delaware’s Medicaid Management System while limiting exposure to HIPAA access violations.

**Software Engineer**

Apex Systems, Inc Boise, ID (Contract, Remote) Nov 2021 – Jun 2023

* Level 2 Support for a highly virtualized Healthcare Management system
* Define and document Root cause of unknown behaviors in Production system and suggest short- and long-term solutions.
* Monitored Production systems, and Updated Production data as needed or requested to meet Business requests.
* Designed and Developed a Reporting system that removes the dependency on Microsoft Excel and the Microsoft Office Object Model when automating the creation of Excel workbooks.

**Software Engineer**

Super Systems, Inc. Richland, WA (Contract, Remote) Aug 2020 – Dec 2020

North Wind Solutions Richland, WA (Contract, Remote) Jan 2021 – Feb 2021

* Primary Data Architect and API Developer for a Department of Energy effort to combine 5 separate web applications into a single solution.
* Managed assigned project activities with Azure DevOps Boards and Jira Epics
* Created Scenarios and User Stories towards defining business requirements.

***Education/Training***

**Southern New Hampshire University**

* MSIT – Database Design and Development Completed Feb 2015

**ITT Technical Institute**

* BS Software Engineering Technology Completed Jun 2007
* AAS Software Applications and Programming Completed Jun 2006

**U.S. Air Force**

* Basic Military Training Completed Dec 1985
* Munitions Systems Specialist Training Completed March 1986
	+ Logistics Operations and Administration
	+ Supply Management
	+ Material Management and Handling
* NCO Preparatory Course Completed April 1989
	+ Personnel Management and Administration
	+ Career Training and Education

***Additional Achievements***

(Additional experience and achievements beyond the time frame indicated in Work Experience)

* **(Manufacturing, 2017 -2018)** Designed and implemented complex prototype of a tool designed to extract over 100 individual measurements from 4 international sites, aggregate, and consolidate the results, and transmit the results from those four sites to a single API hosted at the primary corporate location using XML (SOAP) messages.
* **(Azure Media Services, 2015- 2016)** Updated (redesigned, tested and deployed) the monitoring component of the Azure Media Services (early v2) signal monitoring functionality to use Azure Monitoring Worker, capturing only Telemetry errors for further examination. This action increased the overall measurement capability from 26 audio-visual channels in 30 seconds to over 150 in the same period.
* **(Service Oriented Architecture and Test-Driven Development, 2012 -2015)** Designed, Tested, Documented and Deployed initial version of division-level Web Services as data access layer for over 30 State-level business functions while also providing regulatory required documentation to the public. This action shrunk the Division internet security footprint by almost 50%. Also taught State IT personnel the concepts behind Agile Software Development and Test-Driven Design. Deployed in 2013, this effort still serves as the foundation for Division interactions and communications with the public to this day.
* **(Industrial Research and Development, Test Data Management)**
	+ **(2010 -2011)** In-place re-design, re-build, and replacement of Web Services Data Access layer serving as data collector for over 300 print emulators in 5 separate US and international locations.
	+ **(2006-2007)** Created, Developed, and Managed a manual data replication process that allowed a Fortune 500 company to assume 24-hour testing operations in 2 locations (Boise, ID and Bangalore, India). This involved a daily transport of 1500 manual test operations between the two sites, twice a day. The result was an increase of 30% in overall efficiency, with a 20% increase in quality metrics across 5 current products.