Professional Summary

As a creative and results-oriented Software Engineer with substantial experience in full-stack, server-side, and web development, I possess a comprehensive understanding of industry best practices and a dedication to resolving intricate challenges. I specialize in crafting high-performance, dependable, and scalable solutions that meet and exceed user expectations. My proficiency in effective collaboration and utilization of advanced technologies empowers me to deliver maintainable software that contributes to the enduring success of organizations.

Skills

- Python, Java, C++, C#, Perl, Ruby, Java, JavaScript, TypeScript
- AWS, S3, Airflow, Aurora, EC2, RDB, Salesforce Mulesoft
- MS SQL Server, PostgreSQL, MySQL, Mongo, Elasticsearch, Informix, SQLite, SQL, TSQL, SQLAlchemy, Snowflake
- Flask, Node.js. Angular, jQuery, Django, Bootstrap, Spring, Material UI, JBoss, Celery, RabbitMQ, Docker, Redis, Quart, ASGI, WSGI
- XML, JSON, XSLT, HTML, XHTML
- Git, Mercurial, SVN, CVS
- Windows, Unix, Linux, HPUX, Solaris, WMCS
- Agile, XP, Waterfall

Professional Experience

Disney Worldwide Publishing (Contract TEKsystems, Inc. May 2024 – Present) | Orlando, FL
Senior Software Engineer
Environment: MS SQL Server, Salesforce Mulesoft, Python, Classic ASP (VB Script), Biblio, Snowflake

- Authored a cutover plan for transitioning Disney Media Center to Adobe Experience Manager
- Wrote markdown documents for all active disney publishing properties
- Authored WalkMe in-app guidance and interactive walkthroughs to assist in navigating complex publishing workflows, enhancing user experience with tooltips, step-by-step tutorials, and contextual help features.
- Migrate publication metadata from Disney Media Center to Adobe Experience Manager
- Provide tier 3 support for SQL Server, Mulesoft, Pubworld, and Biblio
- Created an automated script using Python to assist in identifying issues transferring records to OPA
- Analyze and repair data issues in SQL Server views, stored procedures, and tables.
- Identified and compensated for driver issues causing client-side string corruption in PubWorld searches.
- Created Mulesoft data migrations to populate PubWorld with Biblio data, and vice-versa.
- Fix timeout error by improving view performance from 10 seconds to 60 milliseconds response by restructuring views.
- Fix code scope errors in Classic ASP caused by improper declarations in imported libraries.
- Fixed PubWorld workflow by blocking accidental multi-clicks.

Andros (Jan 2021 – Apr 2024) | New York, NY
Senior Software Engineer
Environment: Python, NodeJS, Typescript, Angular, Elasticsearch, Docker, AWS (S3, EC2, Airflow, Aurora, RDB), RabbitMQ, Celery, Redis, ArcGIS, MapTiler, Mongo, MS SQL Server, PostgreSQL, Jenkins, Nginx, Leaflet, React, Redux, Agile, Git, IIS, Centos, Debian, CircleCI, Quart, ASGI, WSGI

- Developed Webtrack Tools management interface for Data Analytics team leveraging Angular, and TypeScript on a Nginx server.
- Created Provider Map product utilizing React, Redux, Typescript, Elasticsearch, Leaflet, ArcGIS, Material UI, and Maptiler to visually represent provider shapes and relationships to Medicaid centroids and geographical locations.
- Worked on Provider Explorer project for the Data Analytics team using React, Redux, and TypeScript as a tool to retrieve provider data by search criteria.

- Developed a shape generation daemon to cache GeoJSON compound shapes representing drive time and distance boundaries to run in off-peak hours, eliminating the need to create the shapes on the fly and reducing batch process times during peak hours from several days to hours.
- Increased code reliability and maintainability by creating suites of unit tests for Webtrack Tools, and NetdevAPI solutions.
- Increased performance of the Smart Recruiting product by refactoring batch processing of Medicaid centroids into asynchronous multi-processing Celery tasks utilizing Redis, and Elasticsearch for data caching reducing runtimes by approximately 20%.
- Increased scalability of Smart Recruiter by rewriting it as a suite of native Python daemon workers in Docker containers utilizing Elasticsearch to operate on a set of input and output queues in RabbitMQ. Scaled economically by spinning up daemons based on queue size allowing real-time analysis of changes to a network and reducing processing time.
- Using Jenkins, Python, and TSQL I created tools for the DevOps team to manage Wetrack resources and perform data analysis.
- Worked closely with Data Engineers to create features, bug fixes, and reports for the Webtrack system utilizing ASP.Net, MS SQL Server, Transact-SQL stored procedures, and MS Reports Services to support contract tracking.
- Created tools to reconcile data between products leveraging SQL Alchemy, Elasticsearch, and TSQL.
- Developed an asynchronous REST API to expose highly accessible geo-location services across teams securely using Quart ASGI, Gunicorn server.
- Wrote an intelligent address parser that prioritized addresses by Levenshtein Distances, and address types increased Geo-Locations' accuracy.
- Increase performance by allowing less accurate Haversine shape comparisons for projects where performance is desirable over accuracy.
- Developed Airflow DAGs to import and merge provider license data from census and county sources. Scraped web pages or retrieved XSLT from S3 sources and transformed results to a common JSON format before merging to Elasticsearch.
- Manage GitHub repositories, CircleCI integrations, and releases.
- Responsible for transforming and migrating data from SQL Server, or PostgreSQL to Elasticsearch and Mongo
- Transformed and imported data to MS SQL Server and Elasticsearch from CSV and XSLT input files.
- Wrote a reconciliation app to merge data from the client portal into the DevOps management tool.
- Programmed data migrations using SQLAlchemy
- Transformed and Imported data dumps from census data, JSON, HTML scraping, and spreadsheets

Rocky Mountain ATV (Jan 2015 - Jan 2021) | Spanish Fork, UT
Senior Software Engineer
Environment: Java, Swing, Apache Wicket, Wildfly/JBoss, MS SQL Server, MySQL, Swing, JavaScript, Bootstrap, HTML, JQuery, Windows Mobile, Peachtree Carousel, XHTML, Agile, Mercurial

- Developed REST API for Peachtree Carousel leveraging Wicket for its MVC framework, and JBoss session beans.
- Developed warehouse inventory management client application in Java using Swing, and Core Java.
- Designed and implemented a warehouse transfer system that flagged inventory for transfer based on demand and availability.
- Optimized Inventory picking to prioritize products based on demand and automatically transferred them to bins in more desirable locations.
- Worked closely with outlet and warehouse workers to design, implement, and maintain a POS inventory clearance sales system using Core Java, Swing, and third-party APIs. Aging and tracking waste for products that don’t sell.
- Designed and implemented an improved interface for handheld scanners using Bootstrap, JavaScript, and Wicket.
- Automated cycle counting process using Windows mobile barcode scanners, Wicket, and JQuery.
- Designed, and developed server, and web applications for warehouse management using wicket MVC framework, JBoss, and MS SQL Server.
- Implemented eCommerce solution leveraging JBoss stateful and stateless session beans.
- Designed, and implemented a secure time clock kiosk solution. leveraging HTTPS, Bootstrap, and JBoss, JavaScript with barcode and EM card reader. Utilized the device camera for identity verification.
- Worked closely with the testing team to quickly fix issues, and the IT team to deploy the products to production.

Access Data (Jan 2013 - Jan 2015) | Spanish Fork, UT
Principal Software Engineer
Environment: Java, C++, C#, Java, Android, Windows Server, MS SQL Server, Outlook, MySQL, JavaScript, MVVM, Agile, WPF, WCF

- Worked on Forensic Tool Kit (FTK) to design, implement, and maintain forensic scanners.
- Developed secure data scanning tools in C++, C#, and Java, emphasizing data integrity.
- Developed a forensic scanner for Outlook in Visual C++, and Windows Server to decrypt, scan, and catalog .pst and .ost file contents and search for suspicious messages or data.
- Decoded Chrome, Firefox, and Internet Explorer cache binary data files and created a scanner to locate forensic evidence.
- Designed, and developed Mobile Phone Examiner (MPE), an in-field forensic scanner solution using MVVM architecture in C# with support for various mobile device scanner plugins.
- Created an MPE plugin for scanning Android devices. Leveraged Android SDK, and RootKits to gain access to the device, then Core Java, and SQLite to clone, and scan the applications, and user data for illegal content.
- Worked closely with Enterprise Processor, Agents, and DB Teams to provide C# and C++ APIs for other products to leverage FTK and MPE capabilities.
- Maintain legacy C++ UI using WPF.

Fidelity (Jul 2011 - Jan 2013) | Salt Lake City, UT
Principal Engineer/Release Team Lead
Environment: Python, Perl, Java, Spring, C++, C#, Oracle, Agile, Continuous Integration, Jenkins, Subversion (SVN), Make, Groovy, Maven, Bash

- As release Engineer Team lead, I managed product design and Scrum tasks.
- I Worked closely with Engineers to build Continuous integration tools in Python, Perl and C#
- Developed scripts to automate XTRAC configuration, building, testing, and deployment. Leveraged Python, Perl, Groovy, Maven, and Jenkins to create an 'Agile Release Train.'
- Oversee technical implementations and designs for distribution management across six domestic and international development teams.
- Work closely with security, database, and product teams to meet strict security compliance.
- Developed Xtrac office management solution features using the Spring framework, core Java, and Oracle DBMS.

Ingeo Systems (Oct 2007 - Jul 2011) | Logan, UT
Principal Software Engineer
Environment: C#, asp.net, WCF, Silverlight, WPF, XBAP, XAML, IIS

- Created electronic filing solutions to connect title or mortgage companies to a recording entity such as a county assessor's office. Leveraged XAML, Silverlight, and XBAP to create a dynamic XML-driven client UI.
- Developed server-side document markup in ASP.Net
- Designed and developed iRecord, a web-based WPF endpoint solution for title companies to record documents with State agencies. Leveraged TIFF subfile and metadata capabilities to encapsulate user submissions efficiently.
- Created a server-side collaborative document markup solution for iRecord that allowed users to drag and drop annotations onto the document, 'send' it to third parties for approval, and return it to the normal workflow when completed.
- Introduced the 'document dependencies' feature to ePrepare which re-routed documents into a 'binder' while the submitter is required to submit another dependent document.
- Using XML, Soap, and XSLT to transform Title Company submitted data to required Government formats.
- Worked closely with representatives from county governments to define requirements in XML format.
- Created XML, and XSLT for Miami-Dade FL, Maricopa AZ, Utah County UT, and others.
- Designed and implemented iTax, iREET, and L2 signing ASP.Net pages for the Ingeo web client framework to manage Real estate tax filings to counties.
- Worked with the Sales team to demo data to prospective clients.

United Online (Apr 2006 - Oct 2007) | Orem, UT
Senior Software Engineer
Environment: Perl, Soap, C++, C#, Android, Windows Server, MySQL, JavaScript

- Wrote Names Database (NDB) social network for Classmates.com using Perl CGI, and MySQL for performance.
- Created a multi-threaded templated email daemon to send email campaigns to NDB's 32 million users.

- Integrated NDB searches with Classmates.com using Java web service to bridge soap calls made from a Perl CGI to the Endeca Java search API.
- Developed a Soap interface for NDB billing and migrated the NDB billing system to QuickBooks.

Symantec (Jan 2000 - Apr 2006) | American Fork, UT
Senior Software Engineer
Environment: Python, Django, Java, C++, WPF, Windows Server, MS SQL Server, Outlook, MySQL, JavaScript, HPUX, Solaris, Linux, Hibernate, XP

- Developed Enterprise Security Manager (ESM) remote modules to validate security configurations, in Visual C++, Java, and Python.
- Leveraged Hibernate Object Relational Mappings to develop backward compatible modules.
- Developed a reporting, charting, and graphing UI solution for ESM using JFC, Swing, Hibernate, Jasper Reports, and JCCharts.
- Engineered a suite of Java and Python tools to enable automated Unit, Integration, and functional tests.
- Increased reliability by creating a framework for automated scale, regression, and localization testing by driving GUI, and command line features. Web interface using Django, and Python for its flexibility.
- Using Java, JUnit, HttpUnit, JFCUnit, and MS SQL designed and implemented an Ant Plugin to gather test/build statistics, and a reporting and notification system using Servlets and JSPs

Omniture aka MyComputer.com (1997 - 2000) | American Fork, UT
Software Engineer
Environment: PHP, C++, MySQL, Linux, BSD Sockets

World Access aka NACT (1995 - 2000) | American Fork, UT
Software Engineer
Environment: Perl, WMCS, SCO Unix, Informix DB, Linux, Visual Basic, Hammer, Central Office Switch, Bash, International Callback

Education

Bachelor of Science in Computer Science
Utah Valley University, Graduated 2004
Focused on software development, algorithms, and data structures, with a strong foundation in computer systems and programming languages.

Google AI Essentials
Online Certificate, Completed January 2025
Gained foundational knowledge in AI, machine learning, and ethical applications, with hands-on experience in AI tools and frameworks.