

EDUCATION

Michigan Technological University • B.S. in Computer Science

2015

SKILLS

- Professional experience in Go, Java, C++ , C#, JavaScript, Python, Ruby, and SQL.
- Personal experience in Rust, Kubernetes, and Proxmox.

PROFESSIONAL EXPERIENCE

Superior Technologies Research • *Senior Software Contractor*

September 2021 - March 2024

- Refactored multiple repositories to conform to domain-driven design structures.
- Collaborated in writing a service library to standardize Go service creation.
- Rewrote Node.js services in Go for easier continued support.
- Updated legacy code base to support multiple currencies.
- Implemented data security measures to ensure end user privacy.
- Integrated the accounts payable process between Medius and Microsoft Dynamics GP using a Go service.
- Wrote technical documentation to help transition the software department to new processes and standards.
- Supported cross-functional teams as they adopted new standards and processes.
- Collaborated with end users to understand their problems and provide appropriate solutions.
- Created a robust integration to process expenses in multiple steps, allowing end users to intervene as needed.
- Optimized existing services to use read-only database connections where applicable to mitigate database strain.
- Collaborated with the database architect to support their schema changes to improve data integrity.
- Converted large legacy stored procedures to more maintainable and debuggable Go code.

Rutherford & Associates • *Software Developer*

August 2016 - September 2021

- Interfaced with the Zambia Revenue Authority to enable local businesses to upload tax information.
- Utilized Firebase for testing the development of Zambian API integration.
- Oversaw and participated in designing the backend interface for Zambian integration in the legacy system.
- Migrated older web service to ASP.Net Core, with domain-driven design principles.
- Set up an ASP.Net Core web API to facilitate efficient transfer of inventory data to external parties.
- Developed Ruby code to enable customers to consume data from the web API.
- Managed multiple projects simultaneously, necessitating frequent communications with customers.
- Supported the Angular web frontend.
- Worked on a Flutter proof of concept as an option for a future iteration of the mobile application.
- Investigated and developed a proof of concept dot matrix image recognition system in Python.
- Researched and implemented forecasting methods for offline time series analysis.
- Collaborated with customers to develop an order suggester for end users.
- Designed and implemented a voice assistant for the mobile platform to enable hands-free usage.
- Created a recommender model service to generate and deploy updated models to customer devices.
- Implemented memory-based and model-based collaborative filtering recommender models for mobile.
- Worked within an ecosystem spanning a variety of platforms and technologies.
- Supported a vast legacy code base, refactoring it in controlled and testable updates.

Rutherford & Associates • *Data Migration Specialist*

February 2016 - August 2016

- Extracted, transformed, and loaded databases from newly acquired clients into the company system via SQL.
- Augmented the legacy C++ application with a SQL export feature to allow for cleaner extraction of client data.
- Communicated project status with company team leads, consultants, and the client data migration team.

Jackson National Life Insurance • *Software Developer*

Spring 2013 - Summer 2015

- Engaged with end users to identify and resolve issues within various Access GUIs and databases.
- Created an application aimed at consolidating employee hours for scheduling purposes.
- Helped improve the efficiency of recruitment and hiring procedures.
- Crafted a customizable dashboard tailored for internal company operations.
- Developed an application for reporting programmer performance metrics.

PERSONAL

Home Server • Utilized Proxmox and Kubernetes to manage and deploy Home Assistant.

April 2024

Roguelike • Developed in Rust for personal growth.

January 2020 - March 2021

Appalachian Trail Section Hikes • Hiked ~1,600 miles spanning from ME to GA.

August 2019 - December 2019