Caden Scharpf | Software Developer

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Technologies

- Java (Spring, JUnit, Maven)
- TypeScript / JavaScript
- Node JS (Express JS, Prisma)
- HTML/CSS

- React JS / React Native
- PHP (Laminas, Laravel)
- Python (Flask, NumPy)
- Linux/Bash

- Docker / Podman
- Apache, Nginx
- Amazon Web Services
- SQL

Education

Arizona State University – Computer Science, Tempe Az   Aug 2019 – May 2023

- Graduated with a Bachelor of Science in Computer Science with a focus in computer networking and Software Engineering.
- Active member of the Sun Devils Linux Users Group.
- Elected Secretary of the Sun Devils Engineering Club.

Experience

Full Stack Business Systems Developer – Iridium Satellite   May 2020 – May 2023

Iridium Web Services

- Designed Enterprise Java APIs enabling both customers and internal users to streamline business processes and efficiently provision network devices.
- Led the effort to incorporate eSIM support, enhancing the platform's readiness for emerging device technologies.
- Revitalized development and deployment procedures through application containerization and refined CI/CD techniques. Achieved notable performance gains and enhanced scalability.
- Devised comprehensive unit and integration testing suites for business logic APIs, resulting in a remarkable 60% increase in code coverage.
- Conducted code reviews and collaborated with team members to ensure that the application was scalable, maintainable, and met internal requirements.
- Contributed to the successful conversion of the SOAP-based API to RESTful architecture.

Iridium SPNet Pro

- Designed and developed a web interface to allow customers and service providers to manage accounts and devices on the network.
- Integrated a container-based development environment to speed up workflows and better support CI/CD practices.
- Worked with stakeholders to identify and prioritize feature requests for the deployment of the Iridium Certus Network.
- Drove the adoption of eSIM provisioning features, ensuring the platform's readiness for modern device deployments.

Mobile App Developer – Local Grown Salads LLC   January. 2023 – Present

LGS Delivery Engine

- Developed a mobile application for the internal logistics team, facilitating real-time tracking and management of delivery metrics.
- Collaborated with cross-functional teams to identify key performance indicators and develop intuitive data visualization features within the mobile application, empowering stakeholders to make informed decisions based on real-time delivery insights.
- Designed and implemented a protocol to encode shipment data in alignment with ISO/IEC 15417 standards, ensuring accurate and compliant data handling throughout the entire delivery process.
- Architected backend services by crafting API and database specifications to support the application.

Works

HiveLink — Web interfaced smart home automation platform with a MERN based tech stack, microservice architecture, and containerized workflows. Developed with TypeScript and implemented as a full stack NodeJS monorepository.

- **Repository:** https://github.com/CadenScharpf/HiveLinkDomotics

Manim CS — *A Python animation library for explanatory Computer Science videos*

- **Repository:** https://github.com/CadenScharpf/manim-cs
- **Release:** https://pypi.org/project/manimcs/
- **ReactJS Web Demo:** https://manimcs-demo.cadenscharpf.tech/

Admin Dashboard - Basic Web Application with User Authentication. Developed in C# with .NET 4.8 and WCF Web Services.

- **Repository:** https://github.com/CadenScharpf/AdminDashboard

MapReduce - Service oriented Implementation of the MapReduce algorithm for processing large data sets. Developed in C# with .NET 4.8.

- **Repository:** https://github.com/CadenScharpf/MapReduce

Currency Exchange - A mobile application to display real time currency exchange rates. Developed in C# with .NET 5.0 and Xamarin.

- **Repository:** https://github.com/CadenScharpf/CurrencyExchange