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

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| **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

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| **Full Stack Business Systems Developer** – Iridium Satellite | May 2021 – 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 | Aug. 2022 – May. 2023 |
| 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>