

# Caden Scharpf | Software Developer

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## Technologies

- Java (Spring, JUnit, Maven)
- TypeScript / JavaScript
- Node JS (Express JS)
- HTML/CSS
- React JS / React Native
- PHP (Laminas, Laravel)
- Python (Flask, NumPy)
- Linux/Bash
- Docker
- Apache, Nginx
- Amazon Web Services
- SQL

## Experience

### Software Engineering Intern – Iridium Satellite

May 2021 - Aug. 2021

- Developed unit tests and performed bug fixes for the Iridium Web Services Java API.
- Contributed to the successful conversion of the SOAP-based API to RESTful architecture.

### Full Stack Business Systems Developer – Iridium Satellite

Aug. 2021 - Present

#### Iridium Web Services

- Developed Enterprise Java APIs for customers and internal users to automate business processes and provision devices on the Network.
- Developed unit and integration testing suites for the business logic APIs; increased code coverage by over 60%.
- Conducted code reviews and collaborated with team members to ensure that the application was scalable, maintainable, and met internal requirements.

#### 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.

### Mobile Application Developer – Local Grown Salads LLC

Aug. 2022 - April 2023

#### LGS Delivery Engine

- Developed and styled an interactive mobile application used by the internal logistics team to track and manage delivery metrics in real time.
- Designed the API and DB specifications for the backend services needed to support the application.

## Education

**Arizona State University** – Computer Science, Tempe Az

Aug 2019 - May 2023

- Graduated with a Bachelor of Science in Computer Science.
- Elected secretary of the Sun Devils Engineering Club
- Active member of the Sun Devils Linux Users Group.

## Works

**Portfolio** – *Web based development portfolio created with React Typescript*

- **Repository:** <https://github.com/CadenScharpf/portfolio>
- **Live Site:** <https://cadenscharpf.tech>

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

- Repository: <https://github.com/CadenScharpf/manim-cs>
- Release: <https://pypi.org/project/manimcs/>

**Manim CS Web Demo** – *An interactive web demonstration for the Manim CS animation library. Created with React Typescript.*

- Repository: <https://github.com/CadenScharpf/manim-cs-web>
- Live Site: <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>