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

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| **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>