Caden Scharpf | Software Developer

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Technologies

- C#
- .NET/WCF
- Blazor
- Xamarin
- Python

- Enterprise Java
- JavaScript/CSS 3/HTML 5
- TypeScript
- React/(Native)
- Node JS

- Linux/Bash
- PHP
- Docker
- Flask, Spring, Apache, Nginx
- Amazon Web Services

Experience

Software Engineering Intern – Iridium Satellite
May 2021 – Aug. 2021

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

Full Stack 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.
- 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.
- Worked with stakeholders to identify and prioritize feature requests for the deployment of the Iridium Certus Network.

Education

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

- Elected secretary of the Sun Devils Engineering Club
- Active member of the Sun Devils Linux Users Group.

Works

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

Portfolio — Web based development portfolio created with React Typescript

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