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

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| --- | --- |
| **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>