Charles Faisandier

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Education

University of Washington Seattle, WA

Bachelor of Science in Computer Science — Major GPA: 3.93 *Sept. 2021 – June 2025*

- **Relevant Coursework:** Software Design and Implementation, Software Tools

Experience

Avionics Engineer Oct. 2023 – Present

Society for Advanced Rocket Propulsion (SARP) *Seattle, WA*

- Part of the networks and communications sub-team of the avionics team.

Full Stack Web Developer January. 2024 – Present

University of Washington School of Medicine (UWSOM) *Seattle, WA*

- Maintains and develops a large **TypeScript** application using **Next.js**, **React** and **Firebase**

Projects

Polls | *TypeScript, React, Express* Aug. 2023 – Nov. 2023

- Built single page web application in **TypeScript** using **React** and **Express**. Users can create and vote in polls which close after a certain duration, showing the results.
- Learned to use sub-components and callbacks to compartmentalize an app.
- Effectively used error handlers to facilitate debugging

NutriTrack | *Python, Flask, Docker* May 2023 – June 2023

- Developed a meal planning full-stack web application using **Flask**. Users can easily create and share meal plans and compare them to personalized nutrition goals
- Learned the process of containerizing an application by building a **Docker** image.
- Managed database relationships and data retrieval using **SQL-Alchemy**
- Used **pandas** for retrieving personalized nutrition goals given user characteristics.

Github Fetch | *JavaScript, HTML, CSS* Nov. 2023

- Developed a web-page which lets users find information about GitHub users.
- Learned to use both Fetch API and XMLHttpRequest to make **AJAX** calls to external API
- Implemented validation and error handling by checking HTTP status codes

Technical Skills

Languages: Typescript, Python, JavaScript, HTML/CSS, Java, C++, Bash
Frameworks: React, Express, Flask
Developer Tools: Git, Docker, GNU Utilities, Neovim
Libraries: pandas, SQL-Alchemy, PyTorch