

Sam McCormick

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Summary

I moved to a new location for personal reasons and used that opportunity to transition out of production engineering, where I had been feeling stagnant, into academic advising. In academic advising, I missed the complex problem-solving and continual learning of engineering, which led me to transition into software development. I am now pursuing a career in a cutting-edge field that will allow me to continuously grow and expand my technical expertise.

Projects

Members Only Message Board

github.com/samjmccormick/odin-members-only

- Built with EJS, Node.js, Express, and PostgreSQL, and styled with Bootstrap and CSS
- Secure message board with user authentication implemented using Passport
- All user data and posts are stored in a PostgreSQL database, with user passwords hashed before storage using BCrypt
- Certain data is restricted to members only and users must enter a secret member password to unlock these features

Storefront

<https://odin-shopping-cart.vercel.app/>

- Built with React and Vite, and styled with React-Bootstrap and CSS
- Storefront web application with product grid displaying item information fetched from FakeStoreAPI
- Users can fetch more products on demand, view detailed descriptions through an accordion toggle, and navigate between the shop page and cart with a navigation bar
- Features a shopping cart that allows users to add products, adjust quantities, and view a real-time total cost

Pokemon Trainer Manager

github.com/samjmccormick/odin-inventory

- Built with EJS, Node.js, Express, and PostgreSQL, and styled with Bootstrap and CSS
- Users can create, view, update, and delete individual trainers and their parties
- Pokémon information is pre-fetched from the PokeAPI and stored in the PostgreSQL database for quick access

Experience

Academic Advisor & Retention Coordinator, Oregon Institute of Technology – Klamath Falls, OR Nov 2021 – June 2024

- Developed, coordinated, and implemented retention initiatives to increase retention by 2% year-on-year
- Performed complex professional advising for 700 undergraduates

Production Lead, Advanced Navigation and Positioning Corporation – Hood River, OR

Jan 2021 – Aug 2021

- Produced 3 Category I Instrument Landing Systems, increasing production by 50% from the previous year
- Implemented 15 new product features to meet customer needs
- Used previous labor, purchasing, and inventory data to forecast build schedule with 90% accuracy
- Hired and trained 4 production technicians, doubling the headcount of the department
- Performed Factory Acceptance Tests on all 3 systems produced

Production Engineer, Advanced Navigation and Positioning Corporation – Hood River, OR

Jan 2020 – Jan 2021

- Assembled, tested, and configured all mechanical, electrical, and software components of the product
- Wrote 62 work and test instructions for in-house created parts and assemblies
- Tested and repaired radio frequency-generating printed circuit boards at the component level

Education

The Odin Project - React, Databases, Node.js

2025

freeCodeCamp - Javascript Algorithms and Data Structures, Responsive Web Design

2024

Montana State University – BS in Mechanical Engineering

2016

Skills

Languages: JavaScript, TypeScript, HTML5, CSS, SQL

Frameworks/Libraries: React, Express, Next.js, React-Bootstrap, Bootstrap, Tailwind