

Herman Wong

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OBJECTIVE

To leverage my problem-solving skills as a Full Stack Engineer.

SKILLS

- **Web Development:** ReactJS, Redux, JavaScript (ES6+), TypeScript, MongoDB, PostgreSQL, HTML5, CSS3, Webpack 4, GraphQL
- **Data Analysis & Computations:** Python, Pandas, MATLAB
- **General:** Git, MS Word, MS Excel, MS PowerPoint, MS Project, MS Visio, G-Suite (Google)

RELEVANT EXPERIENCE

[COD3.com](https://c0d3.com) – *Software Engineer*

October 2019 - Present

Platform that helps users learn how to code through peer to peer teaching and become software engineers through group projects that are used by 420 users.

- Version 2 Repository
 - Setup initial repository with Husky, TypeScript, ESLint, Prettier, and NextJS.
 - Researched different front-end technologies for repository. After evaluating GatsbyJS, NextJS and TailwindCSS, we decided to implement NextJS with Bootstrap-SASS due to ease of setup and versatility.
 - Implemented Landing Page in NextJS with Bootstrap - SASS.
 - Implemented Signup & Reset Password Workflow with Mattermost Chat Integration for c0d3.com with GraphQL.
- Backend Authentication Research
 - Setup self-hosted GitLab and Mattermost on a Virtual Machine for testing.
 - Use GitLab, Mattermost and custom web application to validate that GitLab can be used for Single Sign On (SSO) for c0d3.com. A feature to prevent users from having different accounts between c0d3.com, GitLab, and chat.
- NextJS GraphQL / Cookies Research
 - Researched how to use cookies with NextJS Server Side Rendering (SSR)
 - Implemented GraphQL server that requires credentials via cookie in NextJS server.

PROJECTS

[MyProxy](#) - An open source application that helps users quickly set up their own domain and serve SSL certificates. Deployed to four production servers.

- Added support for AWS and Google Cloud before launch to validate the most popular cloud providers are supported.
- Wrote middleware to handle authentication via cookies and access tokens.
- Added key-value in-memory caching to speed up SSL certificate and domain information queries
- Added ability to view, download, and clear user logs. A feature to help users debug their application.
- Helped onboard myProxy's first two client installations: c0d3.com and themindfulpug.com.

OTHER EXPERIENCE

Onto Innovations (Formerly Nanometrics). – *Manufacturing Engineer*

March 2014 - Present

- Update test scripts for wafer motion control stage to reduce the number of invalid failures by 30%.
- Collaborate with Manufacturing, Quality, and Research and Development (R&D) to troubleshoot issues affecting Field Service or Manufacturing.
- Develop tooling/fixtures for manufacturing process improvement.
- Create documentation for manufacturing assembly and testing.

EDUCATION

Bachelor of Science in Mechanical Engineering

2009 - 2013

California State University, Sacramento