

Herman Wong

Email: hwong.0305@gmail.com · Mobile: (408) 202-3252

Website: <https://hermanwong.tech>

GitHub: github.com/hwong0305

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) – Full Stack Software Engineer

January 2019 - Present

Online Education Platform built on React, Node.JS, GraphQL and PostgreSQL.

- 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 Next.JS with Bootstrap - SASS.
 - Implemented Winston and Sentry.IO logging feature on c0d3 application.
 - 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.
- Teaching & Mentoring
 - Helped new students with JavaScript and git workflow related questions on every Saturday at San Jose Northside Branch Library

[Freedomains.dev](https://freedomains.dev) – Full Stack Software Engineer

January 2018 – December 2018

Heroku / Nginx alternative for hosting and deploying Node.JS applications.

- [MyProxy](https://myproxy.com) – Open Source Project 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