

SEAN WONG

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TECHNICAL SKILLS

Front-End	JavaScript, TypeScript, Python, React, Redux, HTML, CSS, jQuery, Hugo, Material UI
Back-End	Node.js, Express.js, MySQL, MongoDB, Nginx, PostgreSQL, Flask, Redis, RESTful APIs
Testing/Deployment	Jest, Mocha, Chai, Enzyme, Loader.io, k6, AWS: EC2, gitlab pages, docker, ssh, bash
Developer Tools	vim, git, github, gitlab, Debian, PyPI, npm, Webpack, Babel, Agile Methodology, Figma
Data Science	R, Latex, SciPy, NumPy, requests, Pillow, matplotlib, seaborn, pandas

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

DashBill — Full-Stack Engineer | Material UI, Node.js, Express.js, MongoDB, React.js *Jun 2022 - Present*
A finance web application that automates the process of collecting membership fees for Greek organizations

- Implemented unique styling and functionality with **Material UI**, meeting project design and user interaction goals
- Translated **Figma** wireframes into responsive and interactive web pages to increase overall user experience
- Integrated **third-party APIs** for payment gateways, developing an efficient financial management system
- Enhanced navigation and usability with custom tabs and **React** components tailored for specific financial workflows

CupQuest — Full-Stack Engineer | Node.js, Express.js, MongoDB, Socket.io, AWS, Docker *Jun 2023 - Jul 2023*
Mobile-first app where users can search for coffee shops, create and rate product reviews, and connect with friends

- Utilized **Agile methodology** in a team to rapidly iterate/develop an application according to client requirements
- Designed **MongoDB** user schema to represent a friend relationship and architected query to retrieve friends
- Achieved >75% test coverage through unit and integration testing with **Jest**, **Enzyme**, and **React Testing Library**
- Leveraged **React router** and **Express routing** to establish a **RESTful API** following best practices for resources

Atelier Backend API — Back-End Developer | Node.js, Express.js, PostgreSQL, Redis, AWS *Apr 2023 - Jun 2023*
Microservices-oriented architecture scaled independently to capture web traffic on an e-commerce site

- Improved query response times by 10x using **PostgreSQL** aggregate functions and indexes
- Scaled a microservice to handle up to 1000 RPS by horizontally scaling with **Nginx** and **Redis** caching
- Detected system bottlenecks with **Loader.io/htop** stress-testing, resulting in 8x system performance improvement
- Deployed app using **Docker**, ensuring consistent development and deployment environments across platforms

Atelier E-Commerce App — Front-End Developer | React.js, Node.js, Express.js, HTML5 *Mar 2023 - Apr 2023*
Revamped and optimized a retail website delivering to users a performant product browsing to checkout experience

- Developed a **React** carousel allowing users to scroll through related products, view comparisons, and save items
- Modularized the application by extracting common logic into helper functions and reusable **React** components
- Enhanced user accessibility by implementing a light/dark mode with **React** state and a **CSS** color scheme function

PROFESSIONAL EXPERIENCE

Little Yale — Tutor/Teacher *2023 - 2024*

- Mastered art of simplifying intricate scientific and mathematical concepts to ensure understanding among students
- Showcased adaptability by tailoring teaching methods to suit diverse learning styles and individual student needs
- Cultivated supportive learning environment through patience and empathy, fostering collaborative relationships

EDUCATION

Harvard University Extension — Introduction to Computer Science *May 2023 - Present*

Hack Reactor — Advanced Software Engineering Immersive Program *2022 - 2023*

California Northstate University College of Medicine — Coursework in Doctor of Medicine *2020 - 2022*

University of California, San Diego — B.S. in Human Biology *2015 - 2019*

- Provost Honors (2017 - 2019), GPA 3.708
- Relevant Coursework: Calculus 3, Cryptography, Bioinformatics, Data Science, Probability & Statistics