

Andy Lam

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Skills

Strong: • JavaScript (ES6+) • TypeScript • HTML5/CSS • SQL (PostgreSQL) • MongoDB • Node.js • Express • React • Git/Github
Experienced: • Python • Pandas • Testing (Jest, Puppeteer) • AWS (EC2, RDS, S3, Lambda) • Docker • Webpack • Redux

Experience

FEO Fig | Front End Optimizer Library | *Open-Source Developer* | feofig.com 2023 – Present

- Launched an NPM library comprising of key front end optimization techniques, amassing 782 downloads within the first week
- Engineered optimization tools including lazy loading, debouncing, throttling and CSS animation pause from scratch utilizing modern approaches, greatly reducing risk of file deprecation and overall package size by 300% compared to popular alternatives
- Hosted a Dockerized demo site using AWS EC2, enabling users to explore library features without facing local setup challenges
- Constructed custom hooks and wrappers following React's component-based architecture, seamlessly integrating with existing JSX
- Employed Typescript to minimize run-time errors and enhance readability, which led to a more robust and scalable codebase
- Developed automated Puppeteer scripts enabling developers to benchmark network latencies 4 times quicker than manual testing
- Supplied extensive documentation, instructions, and examples to minimize setup complexity and facilitate rapid deployment

FlexWise | Flexible Spending Account Optimizer | *Open-Source Developer* | flexwise.vercel.app 2023 – Present

- Streamlined server-side operations with Express.js following REST principles, resulting in an organized and maintainable codebase
- Established a PostgreSQL database to handle queries efficiently and flexibly across demographic and financial entity relationships
- Implemented a secure authentication system with password hashing and salting using BCrypt, and session tracking using JWTs
- Utilized Webpack with Babel loader to transpile, minify, and uglify code which resulted a 10x reduction in production bundle size
- Incorporated React Router's dynamic routing and code splitting to improve user navigation, lowering initial load times by 40%
- Styled the application using Tailwind CSS library by building responsive designs directly in HTML which increased code readability

Rendez View | Meeting Scheduler Platform | *Open-Source Developer* | rendezview.vercel.app 2023 – Present

- Architected a normalized PostgreSQL database schema, ensuring scalability, data integrity and efficiency across users and events
- Developed a system for generating persistent, custom links alongside location-agnostic scheduling, streamlining user interactions
- Integrated DayPilot API and Material UI to render intuitive calendar views, enabling dynamic scheduling with responsive feedback
- Wrote unit and integration tests with React Testing Library, ensuring continuous reliability of UI components across deployments

JPMorgan Chase | **KPC Health** | *Financial Analyst Intern* Jul 2019 – Aug 2020

- Employed VBA macros and Excel formulas to make automatized templates with documentation boosting monthly efficiency by 20%
- Learned complex financial derivatives quickly and successfully applied them in market analysis, securing return offers as a result

Talks/Publications: • Serverless Architecture: AWS Lambda (Talk) • FEO Fig: Optimizing the Web's Front End with Figs (Medium)

Education

Codesmith | Advanced Residency for Software Engineering Oct 2023 – Dec 2023

University of California, Los Angeles, B.A. | 3.875 / 4.0 GPA Sep 2021 – Jun 2023

University of California, Riverside, Business | 4.0 / 4.0 GPA Sep 2018 – Jun 2020

Awards: • Blue and Gold Scholarship • Pell Grant Recipient • Chancellor's List • Dean's List • University Honors

Activities

- College Volleyball • Pickup Basketball • Freestyle Snowboard • League Esports • EDM festivals • Classical Violin • Pop Guitar