

Andrew Feng

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TECHNICAL SKILLS

Languages | • JavaScript • HTML5 • CSS3
Technologies | • React • Node.js • Express • PostgreSQL • MongoDB • MySQL • MaterialUI • Sass • jQuery
Developer Tools | • AWS • Jest • Mocha • Chai • K6 • Jira • Webpack • Vite • Babel • Postman

SOFTWARE ENGINEERING EXPERIENCE

Hack Reactor

2022-2023

Cap's Closet – Front End – *Fully interactive product detail page for ecommerce clothing application*

- Improved Lighthouse performance score by implementing asynchronous loading of client-side components to reduce 'Time to Interactive' metric from 2.5s to 0.8s
- Established a tracking feature that enabled admins to effectively monitor and analyze user interactions on the web page
- Developed an image carousel with React and Sass to allow users to add and view photos in the product reviews
- Built a custom ratings and reviews section and integrated API routes to allow users to add, filter and search through product review postings to enhance user experience

Atelier Products API – Back End – *Redesigned and scaled back-end for product details in an ecommerce application*

- Programmed an ETL process using Node.js to transfer the full application data set into a relational database designed with PostgreSQL and improved server response speed from ~150ms to ~20ms
- Identified system bottlenecks using k6 and optimized SQL queries to achieve an average response time of ~1ms
- Deployed the application to AWS and leveraged NGINX to horizontally scale and sustain low latency during peak traffic
- Conducted cloud-based stress testing using Loader.io and successfully maintained an error rate of <1% at 1000 requests per second

Petly – Full Stack – *Web application assisting users in discovering pets in need of adoption at nearby animal shelters*

- Designed a responsive multi-page application with React and utilized React-Router to handle routing
- Created a back-end server with Express to serve updated information regarding available pets from PetfinderAPI
- Implemented authentication and authorization with PassportJS and persisted user information in a MongoDB instance

Shredded – Full Stack – *Personalized fitness tracking application allowing users to track and customize their fitness journey*

- Integrated MaterialUI components into application dashboard to display user workout and meal information
- Leveraged Node.js to efficiently process and manipulate JSON data received from third-party APIs
- Developed a PostgreSQL back-end to store and update user workout, session and meal information

PROFESSIONAL EXPERIENCE

Biotium – Production Technician

2021-2022

- Manufactured fluorescent reagents/dyes, solutions and buffers for life science research in an ISO 9001:2015 certified laboratory
- Utilized SAGE 100 ERP software to analyze sales order history via python scripts to streamline production output and improved back-order response by 50%
- Collaborated with directors to successfully implement Paradigm 3 software to manage confidential SOPs and decreased production errors by 20%

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program

2023

Stony Brook University | B.S. Biology (Neuroscience)

2016