

Andrew Feng

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TECHNICAL SKILLS

Front-End | JavaScript, React, HTML5, CSS3, Sass, MaterialUI, jQuery, Axios

Back-End | Node.js, Express, PostgreSQL, MongoDB, MySQL

Testing/Deployment | Jest, Mocha, Chai, K6, AWS

Developer Tools | Git, GitHub, Jira, Webpack, Vite, Babel, Postman

SOFTWARE ENGINEERING PROJECTS

Cap's Closet | Software Engineer | github.com/bxandrew/CapsCloset

2023

JavaScript, React, Express, Node, Sass, PostgreSQL, AWS EC2, NGINX, k6

Cap's Closet is an eCommerce application that allows users to browse products and their related details.

- Built dynamic front-end with JavaScript, React and Sass, implementing asynchronous loading of prioritized components to lower time to interactive from 2.5s to 0.8s.
- Established an ETL pipeline using Express, Node and PostgreSQL to rebuild existing back-end and improved server response speed from ~150ms to ~20ms.
- Identified bottlenecks in RESTful routes by stress-testing using k6 and optimized corresponding SQL queries to use index scan when possible to achieve <10ms response times.
- Leveraged NGINX load balancer to horizontally scale application by connecting four deployed t2.micro EC2 instances on AWS to sustain a server load capacity of over 1000 RPS.

Petly | Software Engineer | github.com/bxandrew/Petly

2023

JavaScript, React, Express, Node, MongoDB, Sass

Petly is a web application that allows users to find pets/animals in need of homes from animal shelters.

- Built front-end with React and integrated React-Router to allow for multi-page browsing.
- Utilized and leveraged PetfinderAPI to return live data on pets available for adoption based on location input using RESTful routes.
- Implemented authentication and authorization with PassportJS to persist user information with a MongoDB back-end.

Shredded | Software Engineer | github.com/bxandrew/Shredded

2023

JavaScript, React, MaterialUI, Express, Node, PostgreSQL

Shredded is a web application that helps users plan and track their workouts and meals effectively.

- Designed front-end using React, leveraging MaterialUI to allow for a uniform user experience.
- Utilized external APIs, queried by customized Express routes to obtain updated information pertaining to workouts and meal nutrition information, allowing users to accurately track progress.
- Implemented back-end with PostgreSQL to allow for efficient access and storage of user information, using sessions to persist user login status when browsing.

PROFESSIONAL EXPERIENCE

Biotium | Packaging/Production Technician I

2021-2022

- Manufactured and packaged fluorescent reagents/dyes, solutions and buffers for life science research in an ISO 9001:2015 certified laboratory.
- Streamlined production output by following SOP guidelines in a production environment when producing chemical reagents to maintain quality standards established by protocols.
- Computed concentrations for fluorescent reagents using a UV-Vis spectrophotometer to provide QA data and to ensure reagent specification meets the modeled criteria.

NY Spine and Rehab Medicine | Physical Therapy Aide

2017-2019

- Assisted in the execution of Physical Therapy protocols established by the Physical Therapist to help patients recover from chronic pain.

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program

2023

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

2016