

Andrew Hang

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Technical Skills

Front End | JavaScript (ES5 and ES6), React, HTML5

Back End | Node.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API Development, Firebase Authentication

Testing/Deployment | AWS: EC2

Developer Tools | Vim, Git, npm, Webpack, Babel, docker, NGINX, VSCode

Software Engineering Projects

Mousefit.gg - <https://devpost.com/software/mousefit> | *Third Place - Best Overall Category*

A web application made to help users narrow down their gaming mouse choice

- Performed agile development practices to ensure the app is fully functional in five days.
- Utilized Puppeteer to scrape Amazon and Youtube data crucial for the users to make an informed decision.
- Rendered a 3D model of a computer mouse using Three.js to enhance the user experience when entering the site.

Atelier - <https://github.com/fec-project-catwalk-team-ocelot/project-catwalk-team-ocelot>

React Native web application providing users with e-commerce shopping experience

- Implemented useReducer and useContext hooks to optimize api data fetching and reducing time to interactive by 215%.
- Increased application performance and first contentful paint by 40% using express compression middleware and lazy loading techniques using react-cool-mg package.
- Improved user interface by allowing users to filter by star rating, and added dynamic highlighted search functionality using a combination of higher order functions and regex.

Atelier System Design - <https://github.com/SDC-Team-Ocelot/overview>

RESTful API for Front-End E-commerce Application

- Implemented an ETL pipeline to transform and format 22 million records using Javascript and CSV parser package to import into PostgreSQL database.
- Utilized k6, Loader.io, and New Relic to optimize load balancing and identify bottlenecks to enable refactoring of the codebase and database queries.
- Scaled microservice to manage 2,000 RPS, 0% error rate, and ~30ms response rate with 22M records of products by deploying three t2.micro EC2 instances using an NGINX load balancer with round robin and enabling caching.
- Identified a bottleneck specific to M1 chips building docker images by building an image archetype suitable to the Ubuntu 20.04 OS archetype which improved response rate and RPS by 200% during deployment.

Experience

GUESS? INC. - *Staff Accountant 2019-2021*

- Improved accounting process by creating dynamic accounting schedules through excel to reduce the chance for human error and improve efficiency when dealing with thousand lines of expenses.
- Implemented a prepaid expense form in excel to emulate the csv format to allow smooth data transferring into the Oracle ERP system.
- Responsible for generating and allocating management fees for GUESS Canada during the month end.

Education

Galvanize Hack Reactor - *Advanced Software Engineering Immersive Program*

2021

University of California, Davis - *Bachelor of Science, Managerial Economics*

2016 - 2018

- Relevant courses: Computers in Technology
- Economics Student Business Association: Director of Fundraising