

ANDY HO

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TECHNICAL SKILLS

Front End | JavaScript (ES5 and ES6), Python, TypeScript, React, HTML5, CSS3, Sass

Back End | Node.js, Nest.js, Express, GraphQL, PostgreSQL, MongoDB, MySQL, RESTful API Development, C++

Testing/Deployment | Jest, Mocha, Chai, AWS: EC2 / RDS / S3

Developer Tools | Vim, Git, npm, Nx, Webpack, Babel, Agile Methodology, Scrum, TDD

SOFTWARE ENGINEERING APPLICATIONS

Full Stack Engineer | Reading Rainforest | github.com/Reading-Rainforest

2022

Book trading application that allows users to trade books with other individuals in their local community

- Modeled trade data with **MongoDB** to couple trader information with user trade information
- Developed routes using **Express** and **Mongoose** to handle book trades between users for real-time updates
- Constructed cards for each trade using **React** and **Google Books API** to display trader and book information
- Analyzed user and trader locations with **Google Maps API** and **React** to implement map display of trader location with respect to user

Software Engineer | Q&A API | github.com/Q-A-API

2022

API service that provides persistent question-and-answer data for various products of an E-commerce site

- Modeled question, answer, and photo data using **PostgreSQL** to withstand the high volume of requests
- Developed nested queries with **PostgreSQL** and **Bluebird.js** to structure data and reduce query times to ~20 ms
- Performed horizontal scaling with **NGINX** and **AWS EC2** instances to decrease the average latency of **Loader.io** stress tests by over 1000%

Software Engineer | Sugar and Spice | github.com/SugarAndSpice

2022

An E-commerce site that incorporates product overview, related products, and question-and-answer widgets

- Designed an overflow image carousel using **React Hooks** and **styled-components** to render images dynamically
- Analyzed the relationship between related and current product data from **Atelier API** using **Axios** and **Bluebird.js** to improve render time by 200 ms
- Implemented comparison modal popups using **React** and **CSS3** to compare various product characteristics

PROFESSIONAL EXPERIENCE

Peer Educator | Academic Resource Center, UC Riverside

2021-2022

- Tutored college freshman students in Algebra and Pre-Calculus
- Guided 17 students through their transition from high school to college
- Encouraged good work ethics and instilled self-confidence through weekly 1:1 meetings

Undergraduate Research Assistant | Department of Entomology, UC Riverside

2021-2022

- Evaluated novel and conventional bait toxicants against strains of German cockroaches
- Analyzed data to determine Lethal Dose (LD50) and Lethal Time (LT50) of various bait toxicants
- Conducted experiments comparing insecticide-susceptible and resistant strains of cockroaches

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate

2022

University of California, Riverside | B.S. Biology

2022

- Honors: *magna cum laude* (GPA 3.86)

PERSONAL

- Experience with over-the-phone communication and extensive audience interactions
- Languages: Proficient Cantonese and Basic Mandarin