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.js, 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   2022-2023

Book trading application that allows users to trade books with other individuals in their local community
- Modeled trade data with **MongoDB** to couple users' trade information with each respective trader's information
- Developed routes using **Express.js** and **Mongoose** to handle book trades between users for real-time updates
- Analyzed locations of user and trader with **Google Maps API** and **React** to implement a map popup display of the trader's location relative to the user
- Directed a team of 6 software engineers to be consistent with the technology stack, tools, workflow, and commits

Software Engineer | Q&A API | github.com/Q-A-API   2022-2023

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 over 10,000 requests per second
- Executed **ETL** to transfer and extract millions of data inputs from source files and load data into target database
- Spearheaded usage of indexing and nested queries with **PostgreSQL** and **Bluebird.js** to structure the body of API responses and reduce query times to ~15 ms on **Postman**
- Performed horizontal scaling with **NGINX** and **AWS EC2** instances to decrease the average latency of **Loader.io** stress tests by over 1000% and achieve an error rate of 0.0%

Software Engineer | Sugar and Spice | github.com/SugarAndSpice   2022-2023

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 application render time by 200 ms
- Implemented comparison modal popups using **React** and **CSS3** to compare the characteristics of various products

PROFESSIONAL EXPERIENCE

Code Coach | theCoderSchool   2023-2024
- Led **Python**, **JavaScript**, and **Scratch** coding classes for students aged 6-18 in a supportive learning environment
- Conducted code reviews and offered constructive feedback to improve the code quality and efficiency of students
- Leveraged various technological platforms to instruct web and game development as well as Python programming

Peer Educator | Academic Resource Center, UC Riverside   2021-2022
- Conducted one-on-one tutoring sessions to assist college students in understanding challenging course material
- Mentored 17 students through their transition from high school to college and from virtual to in-person schooling
- Collaborated with academic advisors and faculty to address concerns and promote academic success initiatives

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate   2022
- Completed over 1,000+ hours of coding

University of California, Riverside | B.S. Biology   2022
- Honors: *magna cum laude* (GPA 3.86)