

PATRICK PHUONG

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Education

University of California, Santa Cruz Santa Cruz, CA 2017-2021 (March)

Bachelor of Science in Computer Science

Relevant Coursework – Algorithms, Data Structures, Web Applications, Computer Security, Distributed Systems, Computer System Design, Database Management Systems

Skills

Languages – JavaScript, Java, Python, C, HTML, CSS

Technologies – React, Expo React Native, Redux, Node, Express, MongoDB, PostgreSQL, Firebase, AWS, Git, Linux, Unix, Docker, OpenAPI

Experience

HydroLogic Purification Systems Santa Cruz, CA

Software Development Engineer Feb 2020 - Present

- Boosted administrative productivity by 65% by implementing search engine on Firestore database through Algolia
- Efficiency resolving system issues increased by 40% by developing ticketing system web application
- Ticketing feature includes RMA tracking that prevents 25% of potential RMA conflicts

Software Developer Intern Sept 2019 – Feb 2020

- Developed a React Native mobile application for customers to register their commercial reverse osmosis systems
- Developed core system parameter tracking feature that provides users consistent system maintenance schedules
- Implemented cloud functions to detect and send email alerts for close to expiring system consumables

Projects

Njoy – MongoDB, Express, Node.js, React.js, Redux Feb 2021

- Lead the development of a web app that generates a schedule given activities and their corresponding durations
- Implemented core algorithm to generate a schedule, developed all RESTful APIs, designed database schemas
- Integrated and implemented all redux handlers and assisted UI development

Splits – MongoDB, Express, Node.js, React.js, Redux Feb 2020

- Deployed a full stack web application designed to view your workout of the day depending on your workout split
- Efficiency achieved by integrating JSON Web Tokens (JWT) to view workout instantly after initial login

The Golden Mean – React.js, Firebase July 2019

- Developed a fully maintained, functional, and deployed podcast web application with over ~40 weekly listens
- Features Google OAuth for secure admin upload, update, and deletes on podcasts
- Implemented cloud functions for email subscription notification system on podcast uploads

Resistor Calculator – Node.js, Lambda Jan 2019

- Developed an Amazon Alexa skill during CruzHacks that takes in 4 voice user color band inputs and returns the correct total resistance and tolerance