

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, System Design, Database Management Systems

Experience

HydroLogic Purification Systems Santa Cruz, CA Sep 2019 - Present

Software Developer Intern

- Developed a React Native mobile application for customers to register their commercial reverse osmosis systems
 - Developed core feature to track system parameters and consumables to produce maintenance schedules
 - Implemented cloud functions to detect and send email alerts for close to expiring system consumables
 - Maintenance schedules reduce recovery time by ~50% to increase overall total system availability
- Developed a React web application for admins to search Firestore database and track logs of system issues
 - Developed cloud functions to synchronize all queries on Firestore to Algolia database which optimizes search
 - Implemented ticket system to log, edit, and resolve customer system issues
 - Logging system tracks RMA's submitted, resulting in 100% guarantee of non-abusable RMA customer issues

Projects

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

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

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

- Developed (deployed) a full stack web app designed to view your workout of the day depending on your workout split
- Efficiency achieved by implementing JWT feature 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 admin podcast upload, update, and deletes
- 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

Skills

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

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