PATRICK PHUONG

pphuong@ucsc.edu · linkedin.com/in/patrick-phuong · github.com/phuong144

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, Distributed Systems, Computer System Design, Database Management Systems, Computer Security

Skills

Languages – JavaScript, Java, Python, C, HTML, CSS
Technologies – React, Expo, Redux, Node, Express, MongoDB, PostgreSQL, Firebase, AWS, Git, Linux/Unix, Docker

Experience

HydroLogic Purification Systems Santa Cruz, CA
Software Development Engineer   Feb 2020 - Present
- Developed cloud functions to synchronize Firestore data to Algolia for highly efficient search indexing on data
- Efficiency resolving system issues increased by 40% by developing ticketing system web application
- Ticket system 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 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
- Web application that generates an available schedule given activities and their corresponding durations
- Implemented core schedule generation algorithm, token-based authentication, and all RESTful APIs
- Fully integrated React-Redux and developed modular, functional components

Distributed Key-Value Store – Node.js, Express, Docker   Dec 2020
- Implemented the APIs for an eventually consistent, highly available, partition tolerant KVS system
- Implemented rehashing solution over consistent hashing

The Golden Mean – React.js, Firebase   July 2020
- Developed full-stack podcast web application deployed with ~40 weekly listeners
- Developed cloud functions for sending email notifications triggered by podcast uploads

Splits – MongoDB, Express, Node.js, React.js, Redux   Feb 2020
- Web application designed to view your workout of the day depending on your chosen workout split

Resistor Calculator (CruzHacks) – Node.js, Lambda   Jan 2019
- Amazon Alexa skill that takes in 4 voice user color band inputs and returns the correct total resistance and tolerance