Daniel Duong

University of California, Irvine — Class of 2018 — Mechanical Engineering
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Projects

Kawaii Pet Prints   *Jan. 2020 - Present*
- Developed an image proofing app that allows a graphic designer to upload completed artwork where customers are able to approve the work with a selection of backgrounds
- Wrote 9 API endpoints for logging a customer in, retrieving data, updating data, and uploading images

Aquarium PAR Database   *May 2019 - Present*
- Built a web app using ReactJS and NodeJS to share aquarium PAR data on various lighting fixtures
- Developed REST API & utilized DynamoDB and AWS S3 with Cloudfront CDN to store data and images
- Applied CSS to style responsive pages for desktop and mobile devices
- Generated $25.76 in revenue & averaged 116 new users per month with a 46% bounce rate

How Many Jelly Beans?   *Jan. 2019 - May 2019*
- Built a web app using ReactJS, NodeJS, and PostGreSQL to rank players participating in a fundraising guessing game
- Wrote 9 API endpoints to control the flow of data and utilitized sockets.io for real-time updates of new players and calculating rank when the game ends

Propiobotics   *Jan. 2017 - Dec. 2018*
- Worked in a team of 6 to design and develop a robotic hand to help stroke patients regain proprioception in their limbs by playing simple computer games
- Programmed Arduino to control 2 linear actuators that moved the patient's fingers in which the position corresponds to one of the 4 arrow keys on a keyboard

Relevant Coursework

UCI Classes
- EECS 12 — Introduction To Programming: Learned how to use data types, functions, control flow, recursion, object-based programming
- MAE 106 — Mech Systems Lab: Worked in a team of 3 to construct an autonomous robot to navigate a course, took on the role of Arduino Programmer to get data from magnetometer and reed switch to control servo angles for steering the robot

Udemy
- Colt Steele's Web Developer Bootcamp: Learned about CSS, HTML, JavaScript, DOM manipulation, server side NodeJS, & command line basics
- Andrew Mead's Node.js Developer Course: Learned about http requests, useful node modules (axios, lodash, validator), promises, async/await, REST API design

Work Experience

Volunteer   *January 2017 - Present*
Interval House | Long Beach
- Researched 1000+ hotels around the world to request room donations and performed data entry into company's database to keep it up to date
- Organized toy drive to distribute toys to underprivileged families

Skills

- JavaScript / HTML / CSS, ReactJS, VueJS, ExpressJS, SASS, npm, REST API, MySQL, ElasticSearch
- Amazon Web Services (AWS) — S3, Lambda, DynamoDB, CloudFront
- Programs — Git, Microsoft Visual Studio, Postman, Adobe Illustrator