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Education _

University of California, San Diego

La Jolla, CA

BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS, 3.2 MAJOR GPA

2018 - 2022

Coursework: Advanced Data Structures, Algorithm Design/Analysis, Graph Theory, Software Engineering

Experience _

Major League Hacking

Remote

OPEN SOURCE FELLOW

June 2020 - August 2020

- · Engineered and implemented Babel plugin import system in Babel Sandbox, an IDE to teach Babel fundamentals
- Collaborating with 8 other fellows to develop WordJS, a JavaScript library for parsing Word documents
- · Refactored command-line interfaces for SheetJS to separate modules to increase maintainability and reduce package sizes

IntElect La Jolla, CA

BACKEND SOFTWARE ENGINEER

February 2020 - Present

Developed back-end REST API using Node.js, Express, and MongoDB

- Designed GraphQL API to increase efficiency of data fetching and front-end/back-end communication
- · Coordinated tasks using Agile Project Management to develop MVP to pitch to potential investors and startup incubators

StayLinked Irvine, CA

WEB DEVELOPMENT INTERN

August 2016

- Partnered with 2 other interns to develop web app in 1 week using HTML, CSS, ¡Query with JavaScript
- Developed a web app for customizing toolbars for company's software, used in production for over 250 corporate clients

Leadership.

Association for Computing Machinery - Hack

La Jolla, CA

CO-FOUNDER AND CO-PRESIDENT

Nov 2019 - Present

- Co-founded student organization dedicated to software engineering, along with 10 other students
- Collaborating with UCSD's ECE and CSE departments to offer certificates for Python workshops
- Developed and presented technical workshops on Git, Unix, React Native, and Firebase for 100+ students

IEEE Quarterly Projects

La Jolla, CA

SOFTWARE/HARDWARE DEVELOPER AND MENTOR

January 2019 – Present

- · Developed heart-rate monitoring glove using Arduino and web application with Node. is to display health information
- Collaborated in team of 5 to design and assemble XY plotter device that draws images from svg files
- Mentored 3 teams of size 4-5 on design and development process

Proiects _

Babel Sandbox - IDE and educational tool for Babel

React, Semantic UI, SailsJS

MLH FELLOWSHIP

github.com/MLH-Fellowship/babel-sandbox

- Collaborated in a team of 8 to develop full-stack web IDE/sandbox for Babel development
- Engineered Babel plugin import system, allowing user to generate Babel configs and apply changes directly to code
- Developed UI components to enable link sharing and forking of saved configs

WordJS - JavaScript document parsing library

JavaScript, TypeScript github.com/SheetJS/js-word

- Collaborated with 8 other fellows to develop a JavaScript library for parsing Word documents
- · Implemented recursive ODT file parsing algorithm using JSDOM to extract text content from ODT files
- · Compiled test files and wrote unit tests using Mocha to test implemented behavior against Microsoft Word

Routine.ly - Task Scheduling App

Flutter, Firebase, Calendar API

HACK AT HOME 2020

- github.com/garrettluu/routine.ly Designed and developed mobile app to automatically schedule tasks with Google Calendar API
- Implemented user authentication and database features with Firebase

Skills.

Languages Java, C, C++, HTML, CSS, JavaScript, TypeScript, Kotlin, Dart, Python, ARM Assembly

Backend Node.js, Express, GraphQL, MongoDB, Firebase Frontend React, React Native, Next.js, Flutter, Electron, jQuery

Tools/Tech Git, Unix, GDB, Mocha, JUnit