

Garrett Luu

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Education

University of California, San Diego

BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS, 3.1 OVERALL GPA

La Jolla, CA

2018 – 2022

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

Experience

Major League Hacking

Remote

OPEN SOURCE FELLOW

June 2020 - Present

- Developing features, triaging issues, and reviewing pull requests for SheetJS, a **JavaScript** library for spreadsheets
- Collaborating with 8 other fellows to develop a **JavaScript** library for parsing Word documents
- Refactored command-line interfaces to separate modules to increase maintainability and reduce package sizes
- Wrote additional unit tests using **Mocha** to verify behavior of new and existing features

IntElect

La Jolla, CA

SOFTWARE ENGINEER

February 2020 - Present

- Coordinated tasks using **Agile Project Management** to develop MVP to pitch to potential investors and startup incubators
- 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

StayLinked

Irvine, CA

WEB DEVELOPMENT INTERN

August 2016

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

Activities

Association for Computing Machinery (ACM Hack)

La Jolla, CA

CO-FOUNDER AND CO-PRESIDENT

Nov 2019 – Present

- Co-founded student organization, along with 10 other students, dedicated to software engineering
- 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.js** to display health information
- Designed and assembled XY plotter device that draws images from svg files
- Collaborated in teams of 3-5 to design and build a project over the course of 9 weeks
- Mentored 3 teams of size 4-5 on design and development process

Projects

WordJS - JavaScript document parsing library

JavaScript, TypeScript

MLH FELLOWSHIP

github.com/SheetJS/js-word

- Collaborating 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

Slearn - AI Flashcard Generator

Express, React, Node.js

HOOHACKS 2020

github.com/gits-lit/hoo-hacks2020

- Collaborated in a team of 4 to design and build full-stack web application for AI generated flash cards
- Engineered back-end using **Express** and **Node.js** to pull data from Wikipedia to use for generating questions

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

Back-End

Node.js, Express, GraphQL, MongoDB, Firebase

DevOps/Testing

Git, Unix, GDB, Mocha, JUnit

Frameworks

React, React Native, Flutter, Electron, Next.js, jQuery