# Garrett**Luu**

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## Education

**University of California, San Diego**                                                                *La Jolla, CA*
BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS, 3.1 OVERALL GPA                                          *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
- 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
- Developed and tested examples in **Azure** and **Firebase** to demonstrate file conversion 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*
INTERN                                                                                                  *August 2016*
- Partnered with 2 other interns to develop web-app in 1 week using **HTML, CSS, jQuery** with **JavaScript**
- Designed 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

**AI Flashcard Generator - HooHacks 2020 Project**                                                     *Express, React, Node.js*
BACK-END DEVELOPER                                                                                      *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

**Carbon Footprint Extension - HackTech 2020 Project**                                                 *HTML, CSS, Javascript*
DEVELOPER                                                                                               *github.com/daniel-d-truong/web-waste*
- **Chrome extension** that calculates carbon footprint of internet browsing
- Developed new features such as automatic pausing of background videos and preventing
  double downloads to reduce carbon emissions of internet activity

**Task Scheduling App - Hack at Home 2020 Project**                                                    *Flutter, Calendar API*
FULL STACK DEVELOPER                                                                                    *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

**Programming Languages:**  Java, C, C++, HTML, CSS, Javascript, Kotlin, Dart, Python, ARM Assembly
**Technologies/Frameworks:** Git, Unix, Node.js, Express, Electron, GraphQL, MongoDB, Firebase, Flutter, React,
                         React Native, Next.js, jQuery