

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

Experience

IntElect

SOFTWARE ENGINEER

La Jolla, CA

February 2020 - Present

- Leading a team of 2 other software engineers using **Agile Project Management** to develop MVP to pitch to potential investors and startup incubators
- Developed back-end using **Node.js**, **Express**, and **MongoDB**
- Designed **GraphQL** API to increase efficiency of data fetching and front-end/back-end communication

StayLinked

INTERN

Irvine, CA

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)

TECHNICAL EVENT DIRECTOR

La Jolla, CA

Nov 2019 – Present

- Hosted hackathon workshop on **ESP8266** and **Firebase** for competitors to apply to hardware projects
- Developed workshop on **Git** and **Unix** for 50+ students, providing foundational skills for future workshops

IEEE Quarterly Projects

SOFTWARE/HARDWARE DEVELOPER AND MENTOR

La Jolla, CA

January 2019 – Present

- Developed heart-rate monitoring glove using **Arduino** and web application with **Node.js** to display health information for user
- 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

FIRST Robotics Competition Team 4322

LEAD PROGRAMMER, PRESIDENT, DRIVER

Orange, CA

August 2014 – June 2018

- Developed control systems and autonomous spline paths for competitive robots in **Java**
- Designed and wired control boards for robots using **Fusion 360**
- Coordinated tasks and activities in a team size of 10 using **Agile Project Management**

Projects

Slearn - HooHacks 2020 Project

BACK-END DEVELOPER

Express, React, Node.js

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

WebWaste - HackTech 2020 Project

DEVELOPER

HTML, CSS, Javascript

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

Cuboid

DEVELOPER

C

github.com/garrettluu/cuboid

- 3D graphics library for the TI-84 Plus CE calculator, written and compiled using **C** toolchain
- Optimized previous issues with memory and speed, resulting in significantly faster performance

Skills

Programming Languages: Java, C, C++, HTML, CSS, Javascript, Kotlin, ARM Assembly

Technologies/Frameworks: Git, Unix, Node.js, Express, Electron, MongoDB, Firebase,

React, React Native, Next.js, Vim, jQuery