Garrett **Luu**

✉ luu.garrett@gmail.com | ▢ (714) 823-5110 | % garrettluu.com | ○ garrettluu | in garrettluu

Education

University of California, San Diego *La Jolla, CA*
BS in Computer Science, Minor in Mathematics, 3.1 Overall GPA *2018 – 2022*

Experience

IntElect *La Jolla, CA*
Software Engineer *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 front-end using **React** and **Ant Design** and back-end using **Node.js** and **Express**

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) *La Jolla, CA*
Technical Event Director *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 *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 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 *Orange, CA*
Lead Programmer, President, Driver *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 *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

WebWaste - 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

Cuboid *C*
Developer *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