

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

Association for Computing Machinery (ACM)

La Jolla, CA

TECHNICAL EVENT DIRECTOR

Nov 2019 – Present

- Hosted hackathon workshop on ESP8266 and **Firestore** for competitors to apply to hardware projects
- Planning workshop on **Git** and **Unix** for expected 100+ students, provide 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**

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

Projects

Stakk - SDHacks 2019 Project

Firestore, Express, React, Node.js

FULL STACK DEVELOPER, PROJECT MANAGER

github.com/garrettluu/stakk

- Collaborated in a team of 3 to design and build full-stack web application for finding study groups
- Mentored team members through **React** frontend and the basics of backend development

CoffeeTime

React Native, Google Places API

DEVELOPER

github.com/garrettluu/coffetime

- Basic **React Native** application that finds coffee shops using **Google Places API**
- Queries user location and searches for shops within a certain radius

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

Awards

March 2018 **UCSD Chancellor's Scholarship**, Awarded to high-achieving, low-income students

UC San Diego

July 2018 **FIRST Robotics Competition SpaceX Scholarship**, Awarded to FIRST alumni based on software project involvement, one of 5 recipients

SpaceX

June 2018 **VPHS Mathematics Medallion Recipient**, Recognizes exceptional students in mathematics, one of 4 recipients

Villa Park HS

Skills

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

Technologies/Frameworks: Git, Linux/Unix, Node.js, Express, Electron, Firestore, React, React Native, Vim, jQuery