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*

Experience

Association for Computing Machinery (ACM)   *La Jolla, CA*
TECHNICAL EVENT DIRECTOR   *Nov 2019 – Present*
- Preparing to host hackathon workshop on **Firebase** for projected 100+ students
- 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   *Firebase, 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*
DEVELOPER   *github.com/garrettluu/coffeetime*
- Basic **React Native** application that finds coffee shops
- 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, HTML, CSS, Javascript, Kotlin, ARM Assembly
Technologies/Frameworks: Git, Linux/Unix, Node.js, Express, Electron, Firebase, React, React Native, Vim, jQuery