

# Garrett Luu

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## Education

### University of California, San Diego

BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

La Jolla, CA

2018 – 2022

## Experience

### IEEE Quarterly Projects

La Jolla, CA

SOFTWARE AND HARDWARE DEVELOPER → MENTOR

January 2019 – Present

- Developed heart-rate monitoring glove and web application to display information
- Designed and assembled XY plotter device that draws images from svg files
- Collaborated in teams of 3 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

Orange, CA

LEAD PROGRAMMER, PRESIDENT, DRIVER

August 2014 – June 2018

- Developed control systems using 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

- Used HTML, CSS, with jQuery and JavaScript
- Designed a web-app for customizing toolbars for company's software
- Partnered with 2 other interns to develop web-app in 1 week

## Skills

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

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

## Projects

### Stakk

Firebase, Express, React, Node.js

FULL STACK DEVELOPER, PROJECT MANAGER

[github.com/garrettluu/carpool](https://github.com/garrettluu/carpool)

- SDHacks 2019 Project - Web application for finding study groups
- Collaborated in a team of 3 to design and build full-stack web application
- Guided team members through React frontend and the basics of backend development

### Carpool

Firebase, Express, React, Node.js

BACKEND DEVELOPER, PROJECT MANAGER

[github.com/garrettluu/carpool](https://github.com/garrettluu/carpool)

- HackXX 2019 Project - Conceptual web application for decentralized ridesharing
- Collaborated in a team of 4 to engineer full-stack web application
- Lead team members through development process and in basics of HTML, CSS, Javascript, and Git

### CoffeeTime

React Native

DEVELOPER

[github.com/garrettluu/coffeetime](https://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](https://github.com/garrettluu/cuboid)

- 3D graphics library for the TI-84 Plus CE calculator
- Written using the C toolchain for the TI-84 Plus CE
- Optimized previous issues with memory and speed

## 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