

# Garrett Luu

✉ galuu@ucsd.edu | ☎ (714) 823-5110 | 📍 La Jolla, CA | 🌐 garrettluu.github.io

## Education

**University of California, San Diego**

BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

La Jolla, CA

2018 – 2022

## Experience

### IEEE Quarterly Projects

PARTICIPANT

- Built heart-rate monitoring glove and web application to display information
- Built XY plotter device that draws images from svg files

La Jolla, CA

January – June 2019

### FIRST Robotics Competition

LEAD PROGRAMMER, PRESIDENT, DRIVER

- Developed control systems using Java
- Designed layout and wired control boards for robots
- Managed team activities using Agile Project Management

Orange, CA

August 2014 – June 2018

### StayLinked

INTERN

- Designed a web-app for customizing toolbars for company's software.
- Used HTML, CSS, with jQuery and JavaScript

Tustin, CA

August 2016

## Skills

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

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

## Projects

### Cuboid

3D GRAPHICS LIBRARY FOR THE TI-84 PLUS CE CALCULATOR

C

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

### Carpool

HACKXX 2019 PROJECT - CONCEPTUAL WEB APPLICATION FOR DECENTRALIZED RIDESHARING

Firebase, Express, React, Node.js

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

### XY Plotter

IEEE SPRING 2019 PROJECT - DRAWS IMAGES ON PAPER FROM VECTOR-IMAGE FILES

GRBL

### Personal Website

PERSONAL WEBSITE/BLOG, FUTURE HUB FOR PROJECTS

HTML, CSS, Javascript, jQuery

[garrettluu.github.io](https://garrettluu.github.io)

### Seatz

HARD HACK 2019 PROJECT - KEEPS TRACK OF WHICH SEATS ARE OCCUPIED ON A BUS

Javascript, Express, Node.js

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

### Heath Glove

IEEE WINTER 2019 PROJECT - TRACKS AND DISPLAYS HEART RATE OVER TIME

Javascript, Express, Node.js

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

## 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

SpaceX

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

Villa Park HS

July 2018 **National AP Scholar**, Recognizes students who received average scores of 4 or higher on all AP exams taken, and scores of 4 or higher on eight or more exams

CollegeBoard