# 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**
Participant

*La Jolla, CA*
*January – March 2019*

- Built heart-rate monitoring glove and web application to display information
- Used Node.js, Express for backend development

**FIRST Robotics Competition**
Lead Programmer, President, Driver

*Orange, CA*
*August 2014 – June 2018*

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

**StayLinked**
Intern

*Tustin, CA*
*August 2016*

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

## Skills

**Programming Languages:** Java, C, HTML, CSS, Javascript, Kotlin
**Technologies/Frameworks:** Git, Linux/Unix, Vim, PID, jQuery, Node.js, Express, Electron

## Projects

**R-3**
3D grapher for the TI-84 Plus CE calculator

*C*
*github.com/garrettluu/r-cubed*

**Junkyard**
Fully custom 59-key ortholinear keyboard

*C*
*github.com/garrettluu/junkyard*

**Motion Profile Generator and Follower**
Used to generate splines for robots to follow autonomously

*Java, Kotlin*
*github.com/garrettluu/4322Utils*

**Personal Website**
Personal website/blog, future hub for projects

*HTML, CSS, Javascript, jQuery*
*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*

**Heath Glove**
IEEE Winter 2019 Project - Tracks and displays heart rate over time

*Javascript, Express, Node.js*
*github.com/garrettluu/seatz*

## Awards

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| 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* |