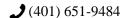
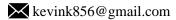
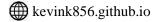
# Kyoomin Kim









### Education

### University of California - San Diego

**Sep 2021 – June 2025** 

GPA: 3.63/4.00

Bachelor of Science in Mathematics - Computer Science

Coursework: Intro to CS, Basic Data Structures, Software Tools, Systems Programming

### **Skills**

Programming Languages: Java, JavaScript, Python, Bash, HTML/CSS, C++, C, SQL, ARM, MATLAB

**Frameworks:** Node.js, SQLite3, JUnit, GNU/GCC **Tools:** Git, Linux, Excel, VS Code, Eclipse, Makefile

# **Projects**

Recall (Link)

July 2022 – Present

Discord Bot / Website

- Developed responsive logging bot using **Node.js** and the **Discord.js** API to provide security measures
- Used the **SQLite** API to securely store logging data for multiple servers and hundreds of users
- Created website with HTML/CSS frontend and JavaScript backend to display the bot's commands to the user
- Mitigated against SQL injection attacks by using parameterized queries, protecting user and server privacy

### **Graphical Sort (Link)**

**June 2021, Sep 2022 (Revisited)** 

Sorting Algorithm Animation

- Developed frontend GUI using the Java Swing and AWT APIs to create visualizations of sorting algorithms
- Used Swing Timers to manipulate graphics and display sorting algorithms step-by-step to create an animation
- Wrote Event and Action listeners to dynamically update graphics based on user input and algorithm progression

#### Markdown Parser (Link)

March 2022 – June 2022

Link Scraper

- Created link scraper for .md files using Java that parses and prints all detected links in any given markdown file
- Integrated CI using GitHub Workflows to automate testing upon push requests to the main branch
- Utilized Makefiles to efficiently test the program against hundreds of test cases using Junit

## Experience

### Co-Founder / Teacher

**Dec 2019 – June 2021** 

Barrington, RI

**Thoth Coding** 

- Co-founded an organization with 3 peers to teach the fundamentals of programming to middle school students
- Coordinated a free 3-week virtual summer camp to teach programming in Java to over 600 students globally
- Organized workflow for efficient collaboration between our team of 4 to develop curriculums in a timely manner
- Designed engaging programming curriculums for both the middle school organization and summer camp