

# Kyoomin Kim

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## Education

**University of California – San Diego**

**Sep 2021 – June 2025**

Bachelor of Science in Mathematics – Computer Science

GPA: 3.63

## Skills

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

**Frameworks/Tools:** Node.js, JUnit, Git, UNIX, Linux, VS Code, MATLAB

## Projects

### Recall

**July 2022 – Present**

Discord Bot / Website (WIP)

- Developed responsive bot using Node.js and the Discord.js API to provide security measures through logging
- Integrated secure logging using the SQLite API with efforts against SQL injection to protect user privacy
- Wrote backend scripts in JavaScript and frontend GUI in HTML/CSS to display the bot's commands to the user

### Markdown Parser

**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 or pull requests from the main branch
- Utilized Makefiles to efficiently test the program against hundreds of test cases using JUnit

### Graphical Sort

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

Sorting Algorithm Animation

- Developed frontend GUI using the Java Swing API for functionality and the Java AWT API to create graphics
- Used Swing Timers to manipulate graphics and display sorting algorithms step-by-step to create an animation
- Wrote Event and Action listeners to dynamically manipulate graphics based on user input via buttons, etc

## Experience

### Thoth Coding

**Dec 2019 – June 2021**

Co-Founder

Barrington, RI

- Co-founded an organization with 3 other students that taught the fundamentals of programming with Java to middle school students to address the lack of programming education in thereof
- Coordinated a free 3-week virtual summer camp to over 600 students to offer coding education during COVID-19
- Created curriculums for both programs with team's varying experience and comfort considered
- Assisted in creating presentation slides, projects and Kahoot's that engaged students in each topic
- Directly taught students on camera every day to maintain their engagement and comfort

## Relevant Coursework

**Basic Data Struct. & OOD:** Linked lists, stacks, queues, binary trees, hash tables, interfaces, encapsulation.

**Software Tools & Techniques Lab:** Linux, SSH, SCP, Shell scripts, VIM, version control, JDB, CI/CD.

**Computer Org. & Systems Prog.:** C, ARM, UNIX, Binary, Bitwise / Logic, CPU components