

Kyoomin Kim

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Education

University of California – San Diego

Sep 2021 – June 2025

Bachelor of Science in Mathematics – Computer Science

GPA: 3.63/4.00

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

Skills

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

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

Thoth Coding

Barrington, RI

- 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

Extracurriculars

Organizations: Association for Computing Machinery, Video Game Design Club, Triton Rocket League