

Kevin Kim

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EDUCATION

University of California – San Diego

Sep. 2021 – June 2025

Bachelor of Science in Computer Science

GPA: 3.66

Coursework: Software Engineering, Advanced Data Structures, Algorithm Design and Analysis, Theory of Computation, Systems Programming, Digital Systems Design and Components

Extracurriculars: Association for Computing Machinery, Video Game Design Club, Varsity Esports, Triton Gaming

PROJECTS

communifyy | *Full Stack Web Application*

May 2023 – Present

- Developed full stack web app to display users' top 5 songs / artists on Spotify and compare them to other users
- Integrated **Spotify API** with MERN-stack (**MongoDB/Lambda, Express.js/Node** backend, **React** frontend)
- Offered playlist with user's similar tastes, created by efficiently querying listening data from over **200** users
- Utilized **Web Playback SDK** and Spotify Connect to provide built-in local playback for users' top 5 songs

Recall | *Discord Bot and Website*

July 2022 – August 2022

- Developed responsive logging bot using **Node** and the **Discord.js API** to provide security measures to servers
- Integrated storage with the **SQLite API** for relational logging data of multiple servers and hundreds of users
- Sped up log-fetching **100%** for each user or server by efficiently querying from the dedicated user/server database
- Created separate website with **HTML/CSS** frontend and **JavaScript** backend to display the bot's commands

Graphical Sort | *Sorting Algorithm Animation*

June 2021, Sep. 2022 (Revisited)

- Created animation program to visualize sorting algorithms on values in real time using **Java's** packaged API's
- Used the **Swing** and **AWT API's** for the GUI, allowing users to change speed, values, size, and algorithms
- Utilized the Swing API's **Timers** to consistently manipulate graphics step-by-step and create an animation
- Restructured and redesigned each algorithm from its traditional implementation to work with the **Timers**

Markdown Parser | *Link Scraper*

March 2022 – June 2022

- Co-created link scraper for Markdown files using **Java** that parses and prints all detected links in the given file
- Integrated **CI/CD** using **GitHub Workflows** to automate unit testing for every user upon pushing a change
- Compiled and tested the program efficiently, using **Make** files to run test cases implemented with **JUnit**
- Generated hundreds of unique Markdown files with **Bash** scripts to simulate link scraping on any website

EXPERIENCE

Co-Founder / Teacher

Dec. 2019 – June 2021

Thoth Coding

Barrington, RI

- Co-founded an organization with 3 peers to teach the basics of programming to over **30** middle school students
- Coordinated a free 3-week virtual summer camp to teach programming in **Java** to over **600** students globally
- Tutored over **100** students on their final projects to guide and help with **API** use, design, structure, and syntax
- Co-developed several interactive **Java** programs by **Pair Programming** to provide practical examples of concepts

FYE Discussion Leader

May 2023 – Present

University of California – San Diego

La Jolla, CA

TECHNICAL SKILLS

Languages: Java, JavaScript, C/C++, HTML/CSS, Python, R, SQL, ARM Assembly, MATLAB

Frameworks: Node.js, Express.js, React.js, SQLite3, AWT, JUnit

Developer Tools: Git, Linux, AWS Lambda, MongoDB, GNU/GCC, CI/CD, Make, Matplotlib