

Kevin Kim

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EDUCATION

University of California San Diego

La Jolla, CA

Bachelor of Science in Computer Science

Sep 2021 - June 2025

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

GPA: 3.70

PROJECTS

StartLift | *Full Stack Mobile Application*

July 2023 - Present

- Created a mobile workout app for beginners with **React Native**, using a **PostgreSQL** database to store exercises
- Sped up exercise data requests by **50%** on the **Express/Lambda** server by efficiently indexing the **RDS** database
- Maintained security for user info by utilizing **bcrypt**-hashed passwords, email verification and **OAuth** protocol
- Ensured consistent performance across platforms by extensively debugging on **Android Studio**, **XCode**, etc

communifyy | *Full Stack Web Application*

May 2023 - June 2023

- Assembled 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** database, **Express/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

- Built responsive logging bot using **Node** and the **Discord.js API** to provide security measures to servers
- Integrated storage with an **SQLite** database 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
- Maintained separate website with **HTML/CSS** frontend and **JavaScript** backend to display the bot's commands

Graphical Sort | *Sorting Algorithm Animation*

June 2021 - Sep 2022

- Engineered animation program in **Java** to visualize sorting algorithms on values in real time using native 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**

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

Instructional Assistant

May 2023 - Present

University of California San Diego

La Jolla, CA

- **Courses:** First Year Experience
- Will lead and mentor **25** first year students in discussion section and office hours to foster student development

TECHNICAL SKILLS

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

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

Developer Tools: Git, AWS Lambda, AWS RDS, MongoDB, PostgreSQL, SQLite, Android Studio, XCode, GNU/GCC