

# Kevin Kim

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## EDUCATION

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### 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:** Triton WebDev, Association for Computing Machinery, Video Game Design Club, Varsity Esports

**GPA:** 3.70

## PROJECTS

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### College Football ELO | *Data Analytics API*

July 2023 - Present

- Designed and implemented an API using **Express.js** and **MongoDB** to transform game history into ELO ratings
- Utilized **Python** and **pandas** library to reformat over **7000** games for API use and over **1000** API query results
- Calculated win probabilities and projected points per game based on ELO by using **R** scripts to simulate matchups
- Scraped game history websites daily using a **Node.js** bot to keep team standings up to date for about **1000** games

### StartLift | *Full Stack Mobile Application*

June 2023 - July 2023

- 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

### 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

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### Instructional Assistant

May 2023 - Present

*University of California San Diego*

*La Jolla, CA*

- Courses:** First Year Experience
- Leading and mentoring **40** first year students in discussion sections and office hours to foster student development

### 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

## TECHNICAL SKILLS

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

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

**Developer Tools:** Git, AWS Lambda, AWS RDS, MongoDB, PostgreSQL, SQLite, Android Studio, XCode, Postman