

KEVIN KIM

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EDUCATION

University of California San Diego

Bachelor of Science in Computer Science

La Jolla, CA

Sep 2021 - June 2025

IA Courses: First Year Experience

Coursework: Software Engineering, Data Structures, Programming Languages, Algorithms, Systems Programming

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

GPA: 3.70

EXTRACURRICULAR EXPERIENCE

Lead Software Engineer

August 2023 - Present

UCSD CSES WebDev

La Jolla, CA

- Supervising a team of **3** software engineers and **2** UX/UI designers to develop CSES WebDev's main website with **React.js** and a backend **Python Lambda** function using **AWS S3**, **RDS** and **CloudFormation**
- Coordinating a proper **SDLC** process by seamlessly planning, designing, implementing, testing and releasing over **50** features over a structured timeline
- Practicing quality assurance with a **CI/CD** pipeline by automating **unit** and **integration** testing, reviewing code or designs, and **E2E** testing before a new release
- Maintaining documentation on over **20** processes and technologies to ensure smooth collaboration between all team members and efficient feature or fix implementations

Co-Founder

Dec 2019 - June 2021

Thoth Coding

Barrington, RI

- Co-founded an organization with 3 peers to virtually teach programming basics 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

PROJECTS

College Football ELO | Data Analytics API

- 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 ESPN everyday using a **Python** script cron job on an **AWS EC2** instance to keep team ELO's up to date

StartLift App | Full Stack Mobile Application

- 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

Graphical Sort | Sorting Algorithm Animation

- Engineered an animation program in **Java** to visualize sorting algorithms 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 asynchronously with timers

TECHNICAL SKILLS

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

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

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