

# Kevin Kim

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## EDUCATION

### University of California San Diego

Sep 2021 - June 2025

*Bachelor of Science in Computer Science*

*La Jolla, CA*

**Coursework:** Operating Systems, Computer Graphics, Databases, Software Engineering, Data Structures, Algorithms

**Extracurriculars:** CSES WebDev, CSES Open Source, ACM, Video Game Design, Varsity Esports, Rec Basketball

**GPA:** 3.70

## EXPERIENCE

### TrustThink

Jan 2024 - June 2024

*System and Security Engineering Intern*

*San Diego, CA*

- Developing an **ROS2** cryptographic API in **C/C++** and **OpenSSL** that supports authentication, encryption, etc
- Providing easy API integration for developers with an SDK in **C++** along with an emulator for example usage
- Enabling secure connection and communication between nodes with the **DDS** protocol and a standalone **PKI**

### CSES WebDev

Aug 2023 - Dec 2023

*Lead Software Engineer*

*La Jolla, CA*

- Led a team of **5** developers and designers for CSES WebDev's website using **React**, **Python** and **PostgreSQL**
- Ensured security for AWS **S3** and **RDS** services by configuring VPC subnets to internal dev and prod scopes
- Reduced feature bugs by **95%** with over **100** automated **unit** and **integration** tests using **Github Actions**

### University of California San Diego

May 2023 - Dec 2023

*Instructional Assistant*

*La Jolla, CA*

- Taught and led **2** sections for First Year Experience to provide first years campus resources and general guidance
- Supported over **30** students in **40+** office hours for professional and academic advice, referring specific resources
- Assisted fellow discussion leaders with content and material by providing powerpoints and day plans in advance

### Thoth Coding

Dec 2019 - June 2021

*Co-Founder*

*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, OOD, structure, and syntax
- Co-developed several interactive **Java** programs by pair programming to provide practical examples of concepts

## PROJECTS

### EloEdge | *Python, pandas, R, Express, MongoDB*

- Created an API for a client to turn **13** years of **12000+** past and present college football games into Elo ratings
- Achieved **60%** accuracy in predicting game outcomes using an error function with custom k-factor and modifiers

### PantryPal | *JavaFX, MongoDB, Gradle, JUnit, Docker*

- Developed a full stack recipe app in a team of **6** with **GPT-3** and **Whisper** to turn voice commands into recipes
- Reduced bugs by **90%** with over **200** unit and integration tests on CI/CD and by E2E testing BDD scenarios

### StartLift | *React Native, Express, PostgreSQL*

- Created a mobile workout app for beginners to create focused routines from over **40** exercises that are filterable
- Securely stored over **50** users' info by utilizing **bcrypt**-hashed passwords, email verification and **OAuth** protocol

### Graphical Sort | *Java, Swing, AWT*

- Engineered an animation program to visualize how sorting algorithms work, utilizing Java Swing's **Timer** steps
- Supported over **800** animation speeds and **6** algorithms, and refactored **1000+** LoC to adhere to SRP and DRY

## TECHNICAL SKILLS

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

**Frameworks:** Express, React, React Native, libssl, pandas, Django, CMake, Whisper, GPT-3, JavaFX, Swing, JUnit

**Developer Tools:** Git, AWS, Docker, Gradle, OpenSSL, MongoDB, PostgreSQL, SQLite, MySQL, Jenkins, Postman