

# Minha Kim

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## EDUCATION

**University of California, Irvine**

**September 2021 - December 2024**

*Bachelor of Science in Computer Science | 3.7 GPA*

- Relevant Coursework: Data Structures and Algorithms, Data Management and Relational Databases, System Design and Operating Systems, Computer Organization, Embedded Systems, Software Testing and Quality Assurance

## EXPERIENCE

**Developer**

**October 2022 - June 2023**

*Team Toxic, 2035*

- Collaborated in Agile teams to build a Unity-based VR game, utilizing C# for physics-based interactions (collision detection, player movement).
- Enhanced players' experience in the virtual environment by implementing vital VR-specific features such as object collision and player movement.
- Integrated GitHub for version control and a Jira-like application for sprint planning, ensuring iterative delivery of 3+ game levels.

**Academic Mentor**

**October 2020 - July 2021**

*Anaheim's Innovative Mentoring Experience*

- Tutored 10+ students in AP Calculus/Biology, technical problem-solving strategies, and standardized tests, improving SAT/ACT scores by 15%.
- Led workshops on basic programming and college admissions, emphasizing logic-building and algorithmic thinking.

## PROJECTS

**GymBro, a Personalized Gym Routine**

- Engineered a full-stack iOS app using SwiftUI for UI/UX and Firebase for backend services (authentication, real-time database).
- Designed a machine learning-based recommendation algorithm, leveraging user feedback and workout statistics. Refined the inner utility function based on internal scores.
- Integrated 100+ workouts with dynamic card interfaces alongside their corresponding images.

**Fabflix, a Netflix replica**

- Developed frontend using HTML, CSS, JavaScript, and backend using Java servlets and MySQL. The database contains over 9,000 movies, more than 60,000 actors, and user information, imported from XML.
- Configured Apache Tomcat on AWS EC2 instances for reliable deployment and operation.
- Developed an Android version of the application using Gradle for multiplatform support.
- Implemented features like encrypted login, reCAPTCHA, shopping cart, and full-text search with autocomplete (20% faster query response).

**Model Analysis Using CIFAR-10 Dataset**

- Analyzed four different classifiers using Python, PyTorch, sci-kit-learn, and NumPy with the CIFAR-10 dataset. Used Jupyter Notebooks and Matplotlib to plot and track the data.
- Trained and evaluated multiple models using PyTorch and achieved 67% test accuracy using a convoluted neural network.
- Deployed machine learning and data mining techniques to extract features, train various models, and optimize parameters.

## PROGRAMMING LANGUAGES & SKILLS

Python, C, C++, C#, Java, JavaScript, SQL, HTML, CSS, Swift, React  
Git, Flask, Firebase, sci-kit-learn, NumPy, PyTorch, Jupyter Notebook, SwiftUI, Docker  
Native Korean, Intermediate Spanish (California Seal of Bilingualism)