Minha Kim

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EDUCATION

University of California, Irvine   **September 2021 - December 2024**

Bachelor of Science, Computer Science; 3.7 GPA

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

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, and JavaScript and backend using Java servlets and MySQL. The MySQL database contains over 9,000 movies, over 60,000 actors, and user information.
- Hosted locally using Tomcat and online with AWS's EC2 instances, achieving 99% uptime. Also created an Android application with Gradle.
- Implemented features like encrypted login (SHA-256), reCAPTCHA, shopping cart, and full-text search with autocomplete (20% faster query response).

2035, a Unity VR game

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

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.

EMPLOYMENT

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.

PROGRAMMING LANGUAGES & SKILLS

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