Minha Kim

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EDUCATION

University of California, Irvine   **September 2021 - June 2025**

Bachelor of Science, Computer Science
- Relevant Coursework: Data Structures and Algorithms, Data Management and Relational Databases, Discrete Mathematics, Computer Organization, Boolean Algebra, Machine Learning and Data Mining, Artificial Learning

PROJECTS

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 and over 60,000 actors alongside all user information.
- Hosted locally using Tomcat and online with AWS's EC2 instances. Also created an Android application with Gradle.
- Features include shopping carts, log-in and password encryption, reCAPTCHA verification, dashboard implementation, XML imports, full-text search, and autocomplete.

2035, a Unity VR game
- Collaborated in constructing an immersive and interactive virtual reality game concerning the dangers of climate change with Unity, leveraging C# programming for game logic and interaction.
- Implemented VR-specific features, such as object collision and player movement, to enhance the player's experience in a virtual environment.
- Collaborated with an interdisciplinary team to design and implement the environment and multiple puzzles throughout the game.

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.
- Applied machine learning and data mining techniques to extract features, train various models, and optimize parameters.
- Evaluated the performance of multiple models, including a convoluted neural network which reached a test accuracy of 67%.

PlayPic, a Spotify Playlist Generator
- Developed a web-based playlist generator that implements color tone and hue analysis algorithms to classify the mood of an image.
- Integrated the Spotify API into the website, allowing seamless access to the Spotify music catalog and playlist creation functionality alongside user authentication.

EMPLOYMENT

Academic Mentor   **October 2020 - May 2021**

Anaheim's Innovative Mentoring Experience
- Mentored lower classmen on AP Biology and AP Calculus BC material and helped students individually with homework and exam preparation, including the SAT/ACT.
- Hosted weekly workshops for younger students about varying subjects including self-care, mental health, and college admissions.

PROGRAMMING LANGUAGES & SKILLS

Python, C, C#, C++, Java, JavaScript, HTML, CSS, MySQL, XML
AWS, React, Tomcat, Flask, Unity, Git, sci-kit-learn, NumPy, PyTorch, JDBC, Jupyter Notebook
Fluent in Korean