Yegun (Eric) Shim

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Education

University of Illinois at Urbana-Champaign *Expected Graduation: May 2027*
Bachelor of Science in Computer Engineering **GPA:** 3.91/4.0

Work Experience

RedForce PC Arena **Seoul, South Korea**
Internet Cafe Manager April 2024 – August 2024
- Provided friendly and efficient customer service, addressed customer needs, and resolved any issues.
- Managed and maintained in-store equipment, including computers, mice, keyboards, and headsets.
- Diagnosed and repaired equipment failures quickly to ensure smooth service.
- Maintained cleanliness and organization of the store, ensuring a comfortable environment for customers.

Ministry of National Defense, Republic of Korea **Gangwon, South Korea**
Frontline Surveillance and Maintenance November 2022 - April 2024
- Served on the frontlines in the South Korean military, working in 24-hour shifts to monitor and maintain barbed wire fences against intrusions from North Korea.
- Trained in using advanced scientific systems for surveillance, including medium and short-range cameras, military networking systems, and security protocols.
- Responsible for troubleshooting and repairing equipment failures using the Korean Army's science-based systems.
- Gained expertise in understanding and interpreting the design and operational schematics of surveillance systems, including cameras and fence monitoring mechanisms.
- Studied the structure and functionality of cameras, ensuring their proper operation and response to malfunctions.

Jaranda **Seoul, South Korea**
English Second Language Tutor January 2022 - October 2022
- Taught phonics to young learners, helping them develop foundational reading and pronunciation skills.
- Provided TOEFL preparation tutoring, focusing on improving speaking, writing, and listening skills for exam success.
- Delivered lessons on English speaking and writing, focusing on fluency, accuracy, and effective communication.
- Taught grammar to students of various levels, helping them build strong language structures for both written and spoken English.
- Developed customized lesson plans and practice materials to address individual student needs and goals.

Lotte World Adventure **Seoul, South Korea**
Assistant Stage Manager May 2021 - August 2021
- Maintained and repaired parade vehicles, including managing and fixing batteries, lights, axles, brakes, and other key components to ensure optimal performance.
- Managed stage lighting and devices, ensuring seamless operation during performances.
- Coordinated performance logistics, ensuring the smooth execution of acts and adherence to schedules.
- Drove parade vehicles, ensuring safe and timely transportation during events.

Smile Chapssal Kkwabaegi **Seoul, South Korea**
Kkwabaegi Shop Worker October 2020 - December 2020
- Prepared and sold Chapssal Kkwabaegi (glutinous rice twisted dough) and Chapssal hot dogs, ensuring high-quality production and consistency.
- Took and processed customer orders at the counter, delivering efficient and friendly service.
- Managed cash transactions and handled daily sales, maintaining accuracy in billing.
- Maintained cleanliness, organization, and effective product display in the store.

Elite Academy **Seoul, South Korea**
Elementary-level English Teacher June 2020 - September 2020
- Taught English to elementary school students, focusing on foundational language skills including vocabulary, reading, and pronunciation.
- Developed engaging lesson plans to promote student interest and enhance language comprehension.
- Utilized interactive teaching methods such as games, activities, and multimedia to facilitate learning.
- Provided personalized attention to students, addressing individual learning needs and challenges.
- Monitored student progress and provided regular feedback to ensure continuous improvement.

Project

Netflix Stock Price Analysis   **Champaign, IL**
Data Analyst   October 2024 – Present
- Analyzed Netflix's stock price data using Pandas and Numpy to assess volatility and calculate risk metrics.
- Developed algorithms to identify trends and optimize data processing, improving analysis accuracy.
- Collaborated with a team to address data inconsistencies and ensure the reliability of findings.
- Applied statistical analysis and problem-solving skills to real-world data challenges.

Vending Machine Hardware Circuit Design   **Champaign, IL**
Hardware and Software Integration Engineer   September 2024 – October 2024
- Designed and implemented a hardware-based vending machine using TTL microchips for coin validation and control logic.
- Utilized Linux to run Xilinx Vivado for designing, simulating, and verifying the Finite State Machine (FSM) that tracked total coin value, enforced limits, and managed product dispensing.
- Differentiated between dimes and quarters using dedicated TTL circuits and integrated FSM logic for coin rejection and system control.

Renovation of AI-Based Surveillance System (Korean Military)   **Gangwon, South Korea**
Security System Engineer   January 2023 – April 2024
- Analyzed and identified drawbacks in the existing surveillance system used by the Korean military, focusing on areas for improvement.
- Proposed AI-based solutions to enhance the system's ability to detect human movement, particularly over fences.
- Gathered and processed data for training the AI model to improve human detection accuracy in real-time.
- Collaborated with a team to refine the system, ensuring compliance with military security standards and enhancing monitoring capabilities.

Involvement

CODABLE Illinois   **Champaign, IL**
Active Member   September 2024 – Present
- Gained foundational Python skills, including Numpy and Pandas, and applied them to real-world projects
- Collaborated with teammates to solve coding problems, sharing efficient solutions to reduce coding time and improve overall productivity.
- Focused on data cleaning, organization, and analysis, enhancing problem-solving and coding efficiency.

Les Clavier Illinois   **Champaign, IL**
Vocalist   September 2024 – Present
- Performed as the lead vocalist at bars and cafes, contributing to engaging live shows.
- Collaborated with bandmates to create cohesive performances, strengthening teamwork and communication skills.
- Refined creativity and problem-solving abilities through music creation and performance.

Skills & Interests

Skills: Bilingual (English, Korean), Python, Linux, C, Java

Interest: Fashion Industry, Fashion Designing, Vocal, Orchestra, Musical & Opera