Taeyoung Yeon

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INTEREST

Human-Computer Interaction, Ubiquitous Computing, AI-based Sensing Systems, Virtual/Augmented Reality

EDUCATION

Seoul National University, Seoul, South Korea   February 2024 (Expected)

B.S in Computer Science and Engineering

Overall GPA: 3.52/4.00

WORK EXPERIENCE

Full Stack Game Developer   September 2019 – February 2023

Awesomepiece, Seoul, South Korea

- Managed live game services serving as Alternative Military Service
- Perform tasks such as in-game content development and server management
- Recognized for achievement, experienced position of development team leader

CUDA Engineer Intern   July 2019 – August 2019

MindsLab, Pangyo, South Korea

- Achieved speed increase in Tacotron 2 TTS module using CUDA MPS
- Developed Python-based profiler to assess model performance

RESEARCH EXPERIENCE

Research Assistant (Remote Collaboration)   September 2023 – Present

with Prof. Karan Ahuja (Incoming Professor at Northwestern University)

- Working on acoustic activity sensing for mobile phones and smartwatches
- Converted original Python code to Swift (iOS) and Kotlin (Android)

Research Assistant   August 2023 – Present

Human-Centered Computer Systems Lab, advised by Prof. Youngki Lee

Seoul National University, Seoul, South Korea

- Working on project displaying status efficiently during VR meetings
- Developed prototype VR meeting application using Unity and designed user study

Research Intern   March 2023 – Present

Human-Computer Interaction Lab, advised by Prof. Jinwook Seo

Seoul National University, Seoul, South Korea

- Served as Student Volunteer at PacificVis 2023 Conference
- Participated in project analyzing effective visualization techniques in pre-recorded online lectures

Research Assistant   July 2023 – August 2023

Real-Time Ubiquitous System Lab, advised by Prof. Chang-Gun Lee

Seoul National University, Seoul, South Korea

- Developed AI model for mental health diagnosis based on learning behaviors
- Debugged React Native Android applications using Android Studio
- Analyzed experimental data and trained AI models using TensorFlow

PROJECTS	**King God Castle**, *at Awesomepiece* September 2021 – February 2023

King God Castle, *at Awesomepiece* September 2021 – February 2023
Skills : Java (Spring Boot), C#(Unity), TypeScript, MySQL, Google Cloud Platform
- Managed global game service expanding to over 20 countries, 8 languages
- Developed dynamic UI tools in Unity native for in-game multi-language features
- Led Development Team, oversaw schedules, mentored five junior developers

Zombie High School, *at Awesomepiece* September 2019 – September 2021
Skills : Java (Netty), C#(Unity), Python (Django), MySQL
- Improved user experience with features like ranked-game reconnect
- Analyzed user gameplay using logging, database queries
- Experienced multi-thread game server handling up to 100,000 concurrent online users

Story Adventurer March 2023 – June 2023
Skills : TypeScript, React Vite, OpenAI API
- Developed automated fairy tale generator for HCI class
- Enabled story creation with selectable branches, option to download as PDF
- Experienced full phase of typical HCI study, including basic user study

Non-linear Image Processor *with LG Innotek* March 2023 – June 2023
Skills : Python, OpenCV, Multiprocessing
- Engineered PCB board defect detection module for LG Innotek
- Received recognition for algorithm optimization surpassing field efficiency
- Presented results to head of the semiconductor department

COMPUTER SKILLS

Virtual Reality : Unity (Meta SDK), C#
Ubiquitous Computing : Kotlin, Swift, Tensorflow, Pytorch, CUDA
Programming : Java (Spring boot, Netty), Python (Django), Javascript (React)

LANGUAGE PROFICIENCY

Korean
Native proficiency

English
Fluent - iBT TOEFL 104 (Reading : 30 Listening : 27 Speaking : 22 Writing : 25)

EXTRA-CURRICULAR ACTIVITIES

Member of Student Council December 2017 – June 2019
Seoul National University, Public Relations Department
- Designed and managed posters for campus events
- Managed official social media accounts and posts for announcements
- Conducted shorthand recording in General Student Representatives Meeting

HONORS-AWARDS

Seoul National University Academic Excellence Scholarship 2017 - 2023
- Merit-based academic scholarship (Awarded for high academic performance)

Excellence Award 2022
Encouragement Award 2021

- Writing Competition by Military Manpower Administration for Industrial Technical Personnel
- Essays on impact of experience as Industrial Technical Personnel on life