

Rachel (Younwoo) Park

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Education

Sungkyunkwan University

Bachelor of Science, Computer Science & Engineering

Bachelor of Engineering, Industrial Engineering

Expected Dec 2025

GPA 4.44 / 4.5

Relevant Coursework: Distributed System, Operating Systems, Data Structures, Algorithms, Web Applications

Experiences

Full-stack Intern, Passes

Dec. 2024 - Present

- **Built over 10 new user-facing features**, including leaderboards and AI-powered pricing tools, to improve engagement and user satisfaction, utilizing full-stack development skills
- Optimized internal workflows by developing APIs and frontend features to automate processes, increasing operational efficiency and reducing manual errors

Python Study Group Instructor, Samsung Institute of Technology

Mar. 2024 - Oct. 2024

- Mentored **6 Samsung employees** in applying Python for real-world data analysis and automation tasks
- Designed and delivered a comprehensive Python curriculum that enabled employees to independently conduct **data processing, visualization, and web scraping** for diverse automation projects

Research Intern, Sungkyunkwan University

March 2024 - June 2024

- Transformed KMTF(Korean Military Tactical Framework) to NIEM format to **strengthen data interoperability** within the Ministry of National Defense's systems, enhancing the effectiveness of battlefield communications
- **Conducted extensive data analysis and restructured military data** to streamline the flow of critical information, contributing to significant improvements in system efficiency

Awards & Certifications

Korean Ministry of Science and ICT Award, KISIA Information Security Developer Hackathon

Aug. 2024

Seoul Business Agency Excellence Award, SeSAC Hackathon (Seoul x Google Korea)

Aug. 2024

Projects

AI-Powered Language Therapist (Chitchat)

Jul. 2024 - Present

Sungkyunkwan University startup program SPARK, Project Manager & Full Stack Developer

- Spearheaded the development of an **AI-based language therapy app for children with speech disorders**, resulting in a **6th place finish out of 96 teams at SeSAC Hackathon**, showcasing the solution's potential to support early speech development
- Implemented **backend services using Flask** and developed the **frontend with NextJS & React-Native**, focusing on **robust API development** to ensure smooth interactions between the server and client
- Managed the project's scope and applied lean canvas strategies, conducting user interviews that refined the app's functionality based on early feedback

Malicious URL Detection Service (URLS)

Jul. 2024 - Oct. 2024

Korea Information Security Industry Association (KISIA), Backend & AI Developer

- **Architected and implemented a scalable backend**, integrated with **PostgreSQL**, and deployed on **AWS EC2 with docker and a CI/CD pipeline** for continuous integration and deployment
- Developed a model aggregation system to combine outputs of three AI models, enhancing accuracy to over 92%
- Engineered a network packet analysis model using **RNN** achieving **94% accuracy** in detecting malicious URLs
- Led a team to **1st place (out of 25 finalists) at KISIA Information Security Developer Hackathon**

Leadership and Extracurricular Activities

PR Officer of Snowboarding Club, Sungkyunkwan University

Mar. 2023 - Feb. 2024

- Recruited **200+ members, increasing club funds by 70%**, while producing media content
- Negotiated and signed housing contracts to facilitate winter training events and provided snowboarding lessons to new members, fostering a welcoming and supportive environment for beginners

Skills

Programming Languages: C/C++, Python, Java, Kotlin, R, SQL, TypeScript, JavaScript, HTML/CSS, Assembly

Tools: Node.js, Next.js, NestJS, Vue.js, Flask, Tailwind, React, REST API, Scikit-Learn, Pandas, NumPy, MySQL, PostgreSQL, AWS, Google Cloud Platform, Docker, Figma, Prisma, Git, Android Studio, Linux