Rachel (Younwoo) Park

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Education

Sungkyunkwan University   **Expected Dec 2025**
Bachelor of Science, Computer Science & Engineering   GPA 3.98
Bachelor of Engineering, Industrial Engineering

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

Experiences

Full-Stack Intern, Passes   **Dec. 2024 - Present**
- **Developed 10+ user-facing features** (e.g., creator leaderboard, channel setting webhook, analytics page) to boost engagement and user satisfaction, handling end-to-end development
- Improved operational efficiency by implementing various internal features such as admin logs and user notes
- **Collaborated with the Data Science team** to implement a **context bandit model** for smart pricing, **driving creator profit growth by 32%** and optimizing revenue

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**
- 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
- 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, React Native, REST API, Scikit-Learn, Pandas, NumPy, MySQL, PostgreSQL, AWS, Google Cloud Platform, Docker, Figma, Prisma, Git, Android Studio, Linux