Hyemin Doo

Software Engineer

Santa Clara, CA 95050 • hmdoo0112@gmail.com • + 1 (510) 453-7542

Passionate Software Engineer with a strong foundation in data analysis, eager to bring my technical and analytical skills into a dynamic environment. Throughout my experiences, I have proactively applied data-driven problem-solving techniques in different workspaces. I'm highly motivated to learn, contribute, and take on new challenges, ready to prove my commitment to teamwork, lead when needed, and tackle complex problems head-on.

PROFESSIONAL EXPERIENCE

ASSISTANT - DATA ANALYST   **Gangnam-gu, Seoul, Republic of Korea**
Blue Ribbon Edu   **Jun 2024 - Aug 2024**

- Developed a Windows-based application using Python to streamline the process of sending test scores to parents via integration with the KakaoTalk Messenger API. The program was designed to seamlessly interface with Excel, extracting and formatting data for automated delivery. This solution significantly optimized workflow efficiency, reducing task completion time from two hours to just 10 minutes.
- Provided insights on potential scores to support student development and provide feedback to both instructors and parents.
- Analyzed mock test scores for over 200 students, identifying trends for both class performance and individual progress, and used data structures to organize and sort data for optimized feedback.

RADAR OPERATOR (SQUAD LEADER)   **Namhae-gun, Gyeongsangnam-do, Republic of Korea**
Republic of Korea Army   **Aug 2022 - Feb 2024**

- Created a Windows XP executable program to automate tracking data management. This program processes daily text files with over 1000 entries, including target names, locations, and departure points, enabling rapid searches and eliminating the previous manual file-by-file search method.
- Led a team of 12 personnel in executing mock missions, fostering leadership, teamwork, and operational efficiency under high-pressure conditions.
- Gained discipline, adaptability, and a results-driven mindset through service in a high-responsibility role.

EDUCATION

SANTA CLARA UNIVERSITY   **Santa Clara, CA**
Bachelor of Science, Major in Computer Engineering   **Expected graduation Jun 2026**

TECHNICAL SKILLS

- Programming languages : Python, C/C++, HTML5

ADDITIONAL INFORMATION

- Relevant Coursework : Object-Oriented Programming and Advanced Data Structures, Abstract Data types and Data Structures, Introduction to Embedded Systems, Algorithms, Web development, Artificial Intelligence (AI)
- Extracurricular Activities : Korean Student Association (KSA), Association for Computing Machinery (ACM)

AI AND GENERATIVE PROGRAMMING PROJECTS

- **Markov Chain Text Generator**: Developed a program that analyzes Stephen King's writing style to automatically generate text in his tone, showcasing expertise in natural language processing and generative algorithms.
- **Upcoming Projects**: Exploring decision trees for predictive analysis and content generation, along with building advanced generative models to deepen proficiency in AI and machine learning techniques.