Segyul Park

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EDUCATION

Purdue University, BS in Computer Science Honors   Expected May 2026
- GPA: 4.0/4.0; Concentration in Machine Intelligence
- Coursework: Computer Architecture, DSA, C Programming, OOP, Differential Equations, Probabilities, Linear Algebra

EXPERIENCE

AI Research Intern, Softeye - Seoul, KR   May 2024 - Aug 2024
- Researched data extraction and abstraction methods on visual life log data. Summarized academic papers and shared weekly insights with the team on methods such as image embedding, clustering, or captioning.
- Designed and implemented a RAG framework from visual lifelog data inspired by Xu et al. (2024), enabling efficient clustering and enhanced filtering. Deployed as a RESTful API on AWS EC2 using Flask.
- Developed a benchmarking tool for evaluating multimodal LLMs, focusing on the impact of cropping around eye gaze. Developed Flask-based web to create a benchmark, view results, and manually grade responses.

Teaching Assistant (CS211), Purdue University - West Lafayette, IN   Aug 2024 - Present
- Hold office hours and assist grading in an advanced algorithmic course subsequent to DSA

Squad Leader, Korea Combat Training Center, Republic of Korea Army - Inje, KR   Oct 2022 - Apr 2024
- Army Sergeant (Honorable Discharge) at Professional Opposing Force Regiment.
- Participated in 10 regiment-level combat trainings. Led the squad in 3 of them and won the best squad in the battalion.

PROJECTS

Connector Classification, TE Connectivity - Berwyn, PA (Corporate Team Project)   Sep 2021 - Mar 2022
- Implemented a CNN to classify connectors on assembly line.
- Focused on translating synthetic training data to classify real images, saving data collection cost.
- Won **Best Innovation Award** for creative approaches such as transfer learning, template matching, heat maps, and aggregator networks, resulting in 99% accuracy

Stocker: Interactive Stock Data Dashboard (Website, Github)   Jan 2024
- Cross-platform service that displays stock price information and various indicators in customized graphs
- Developed with a focus on scalability with Flutter and built simple web hosting with Firebase

Gran Turismo Website (Website, Github)   Sep 2023
- Built web hosting and data server with AWS and frontend with React
- Web scraped necessary data with Python's MechanicalSoup

PERSONAL SKILLS

C, C++, Java, Python (TensorFlow, OpenCV, Flask, Milvus), HTML, CSS, Javascript (React), Dart (Flutter)
English: Native, **Korean**: Native, **Chinese**: Fluent

OTHER EXPERIENCES

Competitive Programming & Math Competitions   Jan 2021 - Present
- Purdue's ICPC Team, Codeforces highest rating: 1748
- AMC 2021: 100.5 (top 10%), AIME 2021: 6 (top 25%)

Club President, Model United Nations at Dominican International School   Aug 2019 - May 2021
- Directed two MUN Conferences, each attracting ~100 participants. Managed human resources and academic content
- Led weekly club sessions. Compiled the materials into a curriculum. Doubled the size of the club