Jeong Jun Song

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EDUCATION

Arizona State University, Ira A. Fulton Schools of Engineering | GPA: 3.87/4.0 **December 2025**

B.S. Computer Science
Dean's List (2023-2024) | NamU Scholarship (2023-2025)

WORK EXPERIENCE

Arizona State University **May 2024 - present**

Research Aide – Software Engineering Role Tempe, AZ

- Leading the **Machine Learning** Insights project, optimizing object detection and developing **cost-effective OCR solution**.
- Building a **Full-Stack** website leveraging **Next.js, Flask, JavaScript, Supabase, AWS Textract API** and **YOLOv8**.
- **Achieve 95% code coverage** by implementing automated unit tests to streamline testing processes.

NGL Transportation INC **January 2022 – January 2023**

Software Engineering Intern Phoenix, AZ

- Reduced truck gate processing time from **5 minutes to 5-10 seconds** by implementing an OCR-based system.
- Improved image detection **accuracy by 20%** through **YOLOv5** model refinement.
- Managed **10,000+** daily data transactions with **PostgreSQL** and **AWS S3**, ensuring secure and efficient storage.

PROJECTS

Business Contract Analyzer Link | Full-stack | Next.js | Python | Flask | JS | Llama API | Git **September 2024 - Present**

- Developing logic to detect toxic clauses in B2B contracts, providing initiative-taking suggestions for resolution.
- Provisioned an EC2 instance, configured a domain in Route 53, and implemented HTTPS encryption using a load balancer.
- Connected the Flask server and front-end via REST API and utilized the LLama API to deliver a solution.

Campus Bookstore Website Link | Full-stack | Agile | JavaFX | PostgreSQL | Git **July 2024 - Present**

- Designing and developed a campus-wide e-commerce platform in processing time by applying Agile method.
- Implementing a time-saving searching algorithm and creating UML diagrams and CRC diagrams in Astah.

Machine Learning Yard Management System Link | Full-stack | Next.js | Supabase | YOLO | Git **May 2024 – present**

- Constructing a full-stack web application to display OCR-extracted data.
- Integrated Tessearct and AWS Textract for an OCR solution, reducing transaction costs.
- Cutting down end-user task time from 5 minutes to 10 seconds.

MindVillage Link | Full-stack | Next.js | Python | OpenAI API | Git **October 2024**

- Let full-stack development for Hackathon for Humanity, ensuring team requirements and integrating the Gather platform API.
- Integrated with the OpenAI API to implement text-to-voice functionality, creating a podcast tailored to the user's mood.

Why don't you be nicer – Ethical Hackathon 2nd Prize Link| Next.js | Node.js | Llama API | Git **September 2024**

- Deployed a website and a Chrome extension by integrating REST API, including Hugging Face and LLama.
- Simplifying API call costs by 25% through modified usage.

OCR Container Number Recognition Link | Python | OpenCV | Numpy | Tesseract | Git **January 2022 – January 2023**

- Developed an automated solution using OpenCV and Tesseract to extract container numbers.
- Filtering for specific words, boosting efficiency by 40% and reducing errors.

ACHIEVEMENT

- 2nd Place winner, Ethical Hackathon, Project: Why don't you be nice(r)? **October 2024**
- Participant of Amazon's Campus Summer Series **June 2024 – July 2024**

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, C++, TypeScript, HTML, CSS
- **Frameworks:** Next.js, React, React Query, Flask, REST API
- **Tools:** Supabase, Git, AWS, YOLO, Jira, Linux
- **Skills:** Full Stack Development, Agile, Data Structures and Algorithms, Software Engineering, QA Test, Computer Architecture

MILITARY Link

Driver and Interpreter, Hanbit Unit 12th Peacekeepers, United Nations (UN), Bor, South Sudan | January 2020 - January 2021

- Supported UN peacekeeping with logistics, interpretation, and aid for war-affected children during COVID-19.