

# Jeong Jun Song

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## EDUCATION

Arizona State University, Ira A. Fulton Schools of Engineering | GPA: 3.81/4.0

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 Tesseract 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 2<sup>nd</sup> 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

- 2<sup>nd</sup> Place winner, Ethical Hackathon, Project: Why don't you be nice(r)?
- Participant of Amazon's Campus Summer Series

October 2024

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 12<sup>th</sup> 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.