(Jun) JeongJun Song

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PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: FURI Research **May 2024 - present**

- Led the Vision AI Insights project, applying machine learning and OCR to address real-world challenges.
- Optimized machine learning algorithms for real-time object detection.
- Contributed to the development of cost-effective OCR solutions, integrating Tesseract and AWS Textract.

NGL Transportation INC, Phoenix, AZ: Software Engineering Intern **January/2022 - January/2023**

- 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

Machine Learning Yard Management System *Full-stack | Next.js | AWS | Supabase | Machine Learning*

- Applied **machine learning** libraries to optimize real-time object detection for automated systems.
- Integrated Tesseract and **AWS Textract** for an OCR solution, reducing transaction costs.
- Developed a **full-stack** web application using **Next.js** and **Supabase** to display OCR-extracted data.

OCR Container Number Recognition *Python | OpenCV | Tesseract | JSON API*

- Developed an automated solution using **OpenCV** and **Tesseract** to extract container numbers from images.
- Enhanced image preprocessing with contour detection and thresholding for improved text recognition accuracy.
- Integrated results into a **JSON API** for seamless data transfer and storage.

KPI Extraction Automation for Logistics Systems *Selenium | Python | KPI Analysis | Web Automation | Github*

- Automated KPI extraction using **Selenium**, reducing manual data collection from **20 minutes to 10 seconds**.
- Developed a scalable solution to extract logistics data from YMS, TMS, and OTTR systems.
- Improved data processing accuracy and efficiency for **10,000+** daily transactions.

Campus Bookstore Website *JavaFX | TailwindCSS | PostGresp | Jira | Github*

- Developing a website for students to buy and sell books on campus.

EDUCATION

Arizona State University, Ira A. Fulton Schools of Engineering **December 2025**

B.S. Computer Science | **GPA: 3.86**

- **Awards:** Dean's List (2023-2024), NamU Scholarship (2023-2025) | FURI Scholarship (2024)
- **Clubs:** Software Developer Association (**SoDA**), ASU's Asian/Asian Pacific American Student (**AAPASC**)

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, Python, C/C++
- **Front-End:** HTML, Tailwind CSS, Next.js, React.JS, React Query, TypeScript
- **Databases:** PostgreSQL
- **Tools & Operating Systems (OS):** Supabase, Node.JS, Git, GitHub , Windows, Linux/Unix

MILITARY

Hanbit Unit 12th of United Nations (UN), Bor, South Sudan – Driver, Interpreter **January 2020 – January 2021**

- Responsible for transporting operational personnel and providing interpretation services.