JeongJun Song

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EDUCATION

Arizona State University, Ira A. Fulton Schools of Engineering | GPA: 3.74/4.0　　　　　　　　**Dec 2025**

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

WORK EXPERIENCE

ARC Lab　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Dec 2024 – July 2025**
Research Assistant | HPC | Python | Linux | Train | Data Mining |　　　　　　　　　　　　Tempe, AZ
- Conducted research under Prof. Ben Zhou, enhancing multilingual capabilities of language models.
- **Trained** and deployed models in an **HPC** (High Performance Computing) environment using up to four NVIDIA A100 GPUs.

Arizona State University　　　　　　　　　　　　　　　　　　　　　　**May 2024 – Dec 2024**
Research Aide – Software Engineering Role　　　　　　　　　　　　　　　　　　Tempe, AZ
- Built a **Full-Stack** website leveraging Next.js, Flask, JavaScript, Supabase, AWS Textract API and YOLOv8.
- Reduced truck gate processing time from **5 minutes to 5-10 seconds** by implementing an **OCR**-based system.

NGL Transportation INC　　　　　　　　　　　　　　　　　　　　　　**Jan 2022 – Jan 2023**
Software Engineering Intern　　　　　　　　　　　　　　　　　　　　　　Phoenix, AZ
- Improved image detection **accuracy by 20%** through **YOLOv5** model refinement.
- Managed **10,000+** daily data transactions with **SQL** and **AWS S3**, ensuring secure and efficient storage.

PROJECTS

Rebil - Startup Link | Next.js | Supabase | Git | Full-Stack | OAuth | GCP |　　　　**July 2025 - present**
- Startup **MVP**(Minimum Variable Product) model development project targeting the vehicle rental market in Indonesia.
- Designing **database schema** with 15+ interconnected tables, platform through **Next.js** framework.
- Integrating Google Maps API, Stripe, and OAuth (**Supabase/Google**) for core platform features**.**

Atoms - Capstone Link | Next.js | Supabase | n8n |　　　　　　　　　　　**May 2025 - present**
- Developing **MCP** (Model Context Protocol) server and **AI Agent** workflows using n8n to automate business processes.
- Building frontend and backend development, optimizing performance and user experience.

CarePilot Link | Full-stack | Next.js | n8n | AI Agent| OpenAI | Supabase | Git |　　　　**May 2025**
- Developed a **Medical AI Agent** to analyze and summarize patient history, assisting doctors in diagnosis.
- Built the UI with Next.js and created **AI workflows** using n8n to analyze doctor-patient conversations and medical records.

Llama Socrates Link | Llama | MoE | CoT | FineTune |　　　　　　　　　　**Jan 2025 – May 2025**
- Created a model pipeline (Judge, Math, Instruction) and **MoE** (Mixture of Experts) for handling math and instructional queries.
- Boosted performance with **LoRA** fine-tuning, improving math accuracy by **32%** and reducing perplexity by **25%**.

Business Contract Analyzer Link | Full-stack | Next.js | Python | Flask | JavaScript | Llama | Git |　　**Sep 2024 – Jan 2025**
- Developed logic to **detect toxic clauses** in B2B contracts, providing initiative-taking suggestions for resolution.
- Connected the **Flask server** and front-end via **REST API** and utilized the **LLama API** to deliver a solution.

Why don't you be nice(r)? Link | Next.js | Chrome Extension | JavaScript | Llama |　　　　**Sep 2024**
- **2nd Place winner**, Presented to Ethical Hackathon.
- Project promoting **positive online interactions** by encouraging reflection before posting harmful comments.

Machine Learning Yard Management System Link | Full-stack | Next.js | Supabase | YOLO | Git |　　**May 2024 – Jan 2025**
- Constructed a **full-stack** web application to display **OCR-extracted data**.
- Integrated **Tessearct** and **AWS-Textract** for an **OCR** solution, reducing transaction costs.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, C++, TypeScript, HTML, CSS
- **Frameworks:** Next.js, React, React Query, Flask, REST API
- **Tools:** n8n, Supabase, Git, AWS, YOLO, Jira, Linux