

Soungmin (Min) Lee

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EDUCATION

Georgia Institute of Technology

M.S. in Computer Science (Machine Learning)

B.S. in Computer Science

- **GPA:** 4.0 / 4.0

Atlanta, GA

Expected Aug. 2027

May 2026

WORK / RESEARCH EXPERIENCE

Amazon Web Services (AWS)

Seattle, WA

Software Development Engineer Intern

Jun. 2026 - Aug. 2026

- Designed a type-aware admission controller for AWS EBS workflow orchestration in Java, isolating failures across **30+ business-critical workflow types** while preserving healthy workflows sharing worker capacity.
- Built a health-based throttling model using workflow health, demand, task cost, and recovery-probe signals, reducing shared task-queue backlog by **54%** in failure-injection testing.
- Implemented probe-floor and gradual ramp-up logic, maintaining a **10%** recovery-traffic floor and restoring normal admission within **1.5 minutes** after downstream service recovery.

Software Development Engineer Intern

Aug. 2025 - Nov. 2025

- Designed and implemented a Model Context Protocol (MCP) server to enable AI-assisted investigation of EBS volume-related tickets, reducing investigation time for **7 common ticket types** by **~80%**.
- Built AI agents and an Amazon Bedrock knowledge base across **8 internal systems**, collapsing a **6-step** on-call investigation flow into a **single-step** workflow.

Georgia Tech FinTech Lab

Atlanta, GA

ML Undergraduate Researcher

Sep. 2024 - May 2025

- Preprocessed **40,000+ phrases** from U.S. and South Korean central bank speeches, meeting minutes, and press conference transcripts using Pandas to build a dataset for monetary stance prediction.
- Fine-tuned FinBERT and other transformer models in TensorFlow for monetary-stance classification, improving accuracy by **5%** over baseline on labeled data.
- Benchmarked RoBERTa variants, identifying RoBERTa-large as the top performer at **71%** accuracy.

LG Innotek

Seoul, South Korea

Software Engineer Intern

Jun. 2024 - Aug. 2024

- Implemented a customized particle filter for UWB-based mobile digital-key localization, reducing location measurement error by **55%** within a **10-meter range**.
- Developed a BLE trilateration system using NXP beacons mounted on vehicles, implemented in C and C++ with a CMake-based build system, achieving stable vehicle localization across a **15-meter operating radius**.
- Trained and evaluated an ECA-ResNet model using Python and TensorFlow for RSSI localization, improving vehicle tracking accuracy by **15%** and characterizing dominant RSSI error modes.

Republic of Korea Air Force

South Korea

Software Developer, Sergeant (Squad Leader)

Sep. 2021 - Mar. 2023

- Built personnel-management and room-reservation features for **5+ military facility websites** using TypeScript, Vue, Java, and Spring Boot, replacing manual workflows.
- Optimized and maintained MySQL databases serving **500,000+ military personnel**, reducing query processing time by **~20%**.
- Built a computer vision model using PyTorch to track bullet marks on targets, replacing the manual evaluation process and accelerating rifle training assessments by **75%**.

PUBLICATIONS

HiKE: Hierarchical Evaluation Framework for Korean-English Code-Switching Speech Recognition

Findings of EACL 2026

Words That Unite The World: A Unified Framework for Deciphering Central Bank Communications Globally

NeurIPS 2025 (Main Conference)

SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, TypeScript, Rust, Go, SQL

Data & Machine Learning: Spark, PySpark, Delta Lake, MLflow, TensorFlow, PyTorch, Pandas, NLTK, LangChain

Frameworks & Libraries: Spring Boot, Django, Node.js, React, React Native, Flutter

Databases & Systems: MySQL, PostgreSQL, MongoDB, Linux, Docker, Kubernetes

Tools & Cloud: AWS, Azure, GCP, Git, GitHub, Jira (Agile), Tableau, CMake