

SEUNGWOO (SIMON) KIM

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EDUCATION

Stanford University

M.S. in Computer Science, AI Track (GPA: 3.95/4.3)

B.S. in Computer Science, Systems Track (GPA: 3.98/4.3)

Stanford, CA

Expected Jun. 2026

Jun. 2025

EXPERIENCE

Stanford AI Laboratory (SAIL)

Student Researcher

Sep. 2023 – Present

Stanford, CA

- Co-lead: Unsupervised optical flow model reducing TAP-Vid endpoint-error by 38.5% (NeurIPS 2025 Spotlight)
- First-author: Zero-shot point-tracking from pre-trained generative video models (NeurIPS 2025 Poster)
- Designed object segmentation method using learned motion statistics of pre-trained vision models (under review)
- Built multi-agent evaluation pipeline and environments for LLM cybersecurity benchmark (NeurIPS 2025 Poster)

Moloco

ML Engineer Intern

Jun. 2023 – Sep. 2023 / Jun. 2024 – Sep. 2024

Redwood City, CA

- Productionized Mamba architecture in TensorFlow, increasing processed events by 2x for online recommendation
- Reduced recommendation model serving-time latency by 30% via systems optimization such as embedding caching
- Performed systematic ablations & error analysis to improve CTR/CVR accuracy on high-traffic ad campaigns

Stanford CS Department

Teaching Assistant

Jan. 2023 – Present

Stanford, CA

- Courses: CS161 (Algorithms); CS106A (CS intro in Python); CS106B (Abstractions in C++)
- Led weekly office hours, sections, and debugging sessions for core Stanford CS courses

Haechi Labs

Software Engineer Intern

Apr. 2022 – Aug. 2022

Seoul, South Korea

- Built a containerized inter-blockchain test environment simulating cross-chain transfers for the company's mainnet
- Improved test coverage of a deployed crypto wallet app to 80% and halved CI time using TypeScript and Spring
- Shipped inter-chain stablecoin transaction feature in Go/TypeScript using IBC protocol stack

27th Infantry Division, ROK Army

Sergeant & Squad Leader

Sep. 2020 – Mar. 2022

Hwacheon, South Korea

- Built interactive HR tools managing over a 100 personnel
- Spearheaded and organized division training, leading a company of over 50 soldiers

Hanwha Group

Software Engineer Intern

Jun. 2020 – Aug. 2020

Seoul, South Korea

- Developed Node.js backend for HR platform that cut time-tracking errors by 20%
- Built a KakaoTalk chatbot that increased market research survey response rates by 15%

PROJECTS & OPEN SOURCE

Keras — Open-Source Contributor

Jun. 2024 – Sep. 2024

- Implemented parallel associative scan ops supporting all backends; bug patches in data & image processing utility

Stanford ASES Entrepreneurship Society — Abroad Team Director

Jun. 2020 – Sep. 2020

- Directed a global internship program with Altos Ventures, matching 10 Stanford students with Asian tech startups

2021 National K-Startup Challenge

Dec. 2021

- Represented the Korean Ministry of National Defense. Won top-prize for cross-category recommendation app

TECHNICAL SKILLS

Languages: Python, C, C++, CUDA

Frameworks & Libraries: PyTorch, TensorFlow, JAX

Developer Tools: Git, Docker, W&B, Airflow, Beam, GCP, AWS, Azure