

Jaehoon Son

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EDUCATION

Swarthmore College

Swarthmore, PA

B.A. in Computer Science and Mathematics; GPA: 3.83/4.0

Expected May 2027

- **Coursework:** Advanced Machine Learning, Software Engineering, Artificial Intelligence, Intro to Computer Engineering, Data Structures & Algorithms, Advanced Algorithms, Compilers, Intro to Computer Systems, Discrete Mathematics
- **Academic Activities:** 3x YC and 2x DeepMind Hackathon Winner; Swarthmore Competitive Programming (ICPC)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, C#, SQL

Frameworks/Tools: Next.js, PostgreSQL, AI Gateway, UNIX, MySQL, Tailwind, Oracle SQL, Git, Docker, AWS, Claude Code

Pipeline Specialties: Real-time data pipelines, query optimization, high-throughput systems, low-latency architecture

EXPERIENCE

Software Engineer

May 2026 – Present

Tesla

- Built internal AI coding tools and development environments for Tesla's **FSD and Digital Optimus** teams, supporting LLM-assisted engineering and computer-use agent workflows
- Created Tesla's **first internal LLM benchmark suite** from proprietary FSD and Digital Optimus engineering tasks, establishing a repeatable standard for evaluating models on company-specific workloads
- Engineered agent-ready development environments for **Digital Optimus**, enabling computer-use agents to operate within Tesla's proprietary software stack

Undergraduate AI Researcher

Sep. 2025 – May 2026

Carnegie Mellon Computer Science Department

- Engineered a **self-improving agent pipeline** where a critique agent recursively refines a task agent's prompt weights, **exceeding LoRA fine-tuning performance across 3 research workflows** without gradient updates or manual tuning
- Built **structured evaluation frameworks** to benchmark model responses against ground-truth datasets, tracking faithfulness, relevance, and context recall to improve pipeline performance by **40%**

Software Engineer Intern

May 2025 – Aug. 2025

Carrier Global Corporation

- Integrated local LLMs via the **Vercel AI SDK** and **Cloudflare Workers** into a real-time industrial data pipeline, using LLM-based post-processing on extracted sensor events to improve anomaly detection and system insight
- Built an internal analytic tool with **Next.js** and **Microsoft SQL** used by **15+ plant technicians and engineers**, replacing manual Excel workflows and cutting report-generation time from hours to seconds
- Redesigned a complex MySQL table schema and rewrote legacy SQL filters using indexing, window functions, and parameterized queries, **cutting average data-retrieval time by over 50%**

Software Engineer Intern

May 2024 – Aug. 2024

BeeLine Reader

- Built a headless content-rendering and extraction pipeline using **Python and Playwright**, reliably transforming dynamic news pages into structured, render-ready content for **100,000+ users**
- Designed and shipped a **Newspack-compatible integration layer**, standardizing **content ingestion via APIs**
- Executed a comprehensive plugin overhaul, yielding **30% faster load times** and **50% less server usage time**

Software Engineer Intern

May 2023 – Aug. 2023

Bank of Saipan

- Played a key role in launching a new credit card service, **increasing customer onboarding rate by 15%**
- Implemented role-based access control and **security upgrades** across service endpoints, restricting sensitive operations
- Wrote unit tests for core services, validating authorization logic, API correctness, failure cases, and retry logic

PROJECTS

Hermes | AI Customer Intelligence Platform

Apr. 2026 – Present

- Built the agent harness that turns product behavior into coordinated actions across **email, iMessage, Slack, and SMS**
- Scaled Hermes to send **80,000+ personalized emails** and added a unified integration layer for agents to execute multichannel outreach

SlideBud | AI Presentation Generation Platform

Sep. 2025 – Nov. 2025

- Orchestrated agent workflows using **Python** and the **OpenAI Agents SDK**, with a grounded knowledge-synthesis pipeline for citation-ready presentations
- Grew the platform to **10,000+ users** through rapid feature iteration and data-driven product improvements

MakeYourWebsite | AI Website Creation Platform

Mar. 2025 – May 2025

- Engineered AI-powered website creation using **Google's Agentic Development Kit (ADK)** and **AI Gateway**, enabling users to launch websites **10x faster** than with traditional builders
- Scaled the platform to **8,000+ users** and **900+ live published websites** while **cutting response latency by 45%** through model and pipeline optimization