

# Ari Singer

✉ me@arisinger.net | ☎ +1 248-763-8364  
🌐 LinkedIn | 🏠 GitHub | 🌐 arisinger.dev  
🏠 New York, NY

## EXPERIENCE

AMAZON

New York, NY

JUNE 2025 — PRESENT

Software Development Engineer II

- Built a production LLM inference platform end-to-end in two weeks, leading technical direction across principal-level engineers (L7/L8) — disaggregated serving with Nvidia Dynamo, KV-aware routing, and a custom orchestration layer supporting A/B deployments, fault tolerance, and rate limiting, fully IaC on Kubernetes (AWS CDK)
- Owned production hardening including observability (metrics, dashboards, alarms), security compliance, air-gapped VPC networking, and open-source dependency mirroring
- Shipped an agent playground (Streamlit) and demo agents (LangChain) to showcase model capabilities to leadership
- Supported post-training and evaluation efforts — ran SFT jobs with Verl and debugged training pipeline issues for research scientists

Software Development Engineer I

MARCH 2024 — JUNE 2025

Software Development Engineer Intern (Seattle, WA)

- Implemented an asynchronous pipeline that routed 100K+ ad creatives through AI-based transformation services, converting assets into new format-compliant variants — unlocked hundreds of millions of new DSP impressions and significant incremental annual revenue

Software Development Engineer Intern (Remote)

MAY 2021 — AUGUST 2021

Software Development Engineer Intern (Remote)

- Developed an automation layer that pulled Fire TV and Fire Tablet ad campaign data from S3, transformed and enriched the data, and wrote results to DynamoDB

UNIVERSITY OF MICHIGAN

Ann Arbor, MI

AUGUST 2023 — MAY 2024

Graduate Student Instructor

- EECS 441 — Mobile App Development: grading, lectures, office hours

Graduate Researcher

JUNE 2023 — MAY 2024

Graduate Researcher

- Developed and deployed agentic LLM applications for K–12 classrooms before frameworks like LangChain existed — implemented chain-of-thought prompting and context management, deployed to real classrooms with the Center for Digital Curricula

Undergraduate Researcher

JANUARY 2021 — DECEMBER 2021

Undergraduate Researcher

- Studied reinforcement learning techniques for tuning inkjet printer parameters within a multidisciplinary team

## PROJECTS

Smart Door Handle

GitHub

Smart Door Handle

- Engineered a smart door handle with MCU firmware (C), cloud backend (Python), and a companion mobile app (React Native) — handled embedded programming, wireless communication, and full-stack integration (EECS 473: Advanced Embedded Systems)

## EDUCATION

UNIVERSITY OF MICHIGAN

Ann Arbor, MI

MAY 2024

Master of Science in Engineering in Computer Science

- GPA: 3.90/4.00

Bachelor of Science in Engineering in Computer Science, Math Minor

MAY 2023

Bachelor of Science in Engineering in Computer Science, Math Minor

- GPA: 3.95/4.00 (Summa Cum Laude)

Relevant Coursework: Operating Systems, Machine Learning, Natural Language Processing, Systems of Generative AI, Compilers, Computer Architecture, Cryptography, Computer Networks, Web Systems

## SKILLS AND TECHNOLOGIES

LANGUAGES	Python, Java, C++, C, Typescript/Javascript, Bash, SQL
INFRASTRUCTURE	AWS, Kubernetes, Docker, Linux, Git, vLLM, Nvidia Dynamo, Verl
FRAMEWORKS	LangChain, Streamlit, React.js, pytest