

EDUCATION

New York University, Courant Institute of Mathematical Sciences

New York, NY

Bachelor of Arts in Computer Science and Economics, Minor in Policy and Business Management

On Leave

- GPA: 3.6/4.0 | ACT: 36/36
- Relevant Coursework: Operating Systems, Political Economy, Artificial Intelligence, Macroeconomic Theory, Computer Security
- Activities: Tech Correspondent for NYU Econ Review, Infrastructure and Research for NYU OSIRIS (Cybersecurity Lab)

PROFESSIONAL EXPERIENCE

Microsoft

Redmond, WA

Software Engineering Intern – Microsoft Security Intelligence

Jun 2026 – Sep 2026

- Engineered pipeline to generate rightsized, least-privilege permission sets across 32k+ first and third-party apps and AI agents
- Scaled Azure Detection Platform pipeline to all 1.5k+ Microsoft Graph workloads by mapping endpoints with agentic code analysis
- Reduced risk ratings of compromised Entra identities by 30%, limiting the attack vector from exploits by agentic actors

Omega Venture Partners

Menlo Park, CA

Technical Consultant, AI Systems

Mar 2025 – Aug 2026

- Built and a custom AI-driven firm management platform automating email, outreach, and due diligence workflows
- Reduced firm operations from multi-week to hours via automation pipeline (FastAPI, React, RAG + SERP APIs)
- Authored technical assessments for prospective investments, benchmarking differentiation and scalability for over \$5M in deal value

Doppio Labs

New York, NY

Co-Founder & CTO

Feb 2025 – Mar 2026

- Released the first GDPR-compliant search platform across 800M+ candidate profiles, improving match rate 30x (1% to 30%)
- Built and deployed a containerized FastAPI/Pinecone API with custom RAG context, LLM harness, and NextJS frontend
- Scaled platform to 5,000+ users and several business clients; secured pre-seed investment from LvlUp Ventures

Cisco Systems

San Francisco, CA

Technical Intern – Control Center

Jun 2025 – Aug 2025

- Built a new onboarding automation for all 1.5k+ devices across 12 global data centers using PostgreSQL, FastAPI and Prometheus
- Engineered a vulnerability tracking API and platform, identifying and surfacing 28K+ threats across all control center hardware

Technical Intern – IOS-XR

Jun 2024 – Aug 2024

- Migrated 3K+ OS build packages from NAS to Artifactory across all Cisco regions, enabling caching for global build infrastructure
- Rewrote SDK delivery pipeline, cutting 5 redundant processes, storage demand by 1TB+ per release, and build time by 10%

Ironmill Inc.

San Jose, CA

Associate Distributed Computing Researcher

May 2022 – Aug 2023

- Built a ZK authentication demo (Rust, Tokio, ZK-SNARKs) used to close a \$2M round; presented architecture at ETHDenver

PROJECTS

ArenaBench – Engineered an adversarial multi-agent evaluation platform in a sandboxed VM to test lateral movement and permission escalation under competitive pressure; instrumented traces to surface emergent behaviors (cooperation, replication, communication)

Pokeweb – Recompiled Pokemon DS games for Windows, MacOS, iOS. First in the world to deliver native releases for 6 out of 7 games. Also ported to web with optimized WASM, new multiplayer implementations, and server-side saves.

Neural Embodiment Simulations – Benchmarked fruit fly and zebrafish connectomes against RNNs across control and temporal tasks, varying linear/MLP encoders and decoders to test whether connectome structure confers task-specific advantages

PATENTS & PUBLICATIONS

“Methods and Systems for Selecting an Optimal Proof System for Zero-Knowledge and Other Proofs,” Patent Issued, 2023

“SyncTCI: Synchronized Context Injection on Distributed Real-Time Inference Hardware,” Patent Pending, 2025

WRITING

“Gendered Impact of High-School Financial Literacy Requirements on Young Adults’ Credit Behavior,” - UChicago Econometrics Game

“Powering the AI Revolution: Inside the Energy Economics of Data Center Development,” - New York University Economics Review

“Inside the Costs of Compliance, and the Downstream Effects of Delve’s Fraud,” - New York University Economics Review

AWARDS

Hack-Nation: Winner, VC Track – Over 6,000+ participants, won with Doppio Labs, received admission to venture incubation program

A16Z Headstarter GLW Hackathon: Finalist – Top 5 out of over 3,000+, pitched Doppio Labs as a lead-generation tool

Los Altos Hacks V: 2nd Place Overall – developed a natural language and OCR system to generate notes from text (pre ChatGPT)

NYU Dean’s List: College of Arts and Sciences Dean’s List award for academic achievement

SKILLS & INTERESTS

Languages: Python, Dart, Go, Rust, C/C++, KQL/SQL

Frameworks/Tools: FastAPI, PostgreSQL, Apache Spark, Kubernetes, Docker, Git, Pinecone, Azure Data Lake, OpenAI Evals, Entra ID

Topics: Agent Identity, Neural Networks, Reinforcement Learning, Post-Training, AI Security, Agent-Driven Threats, AI Alignment

Hobbies/Interests: Music Composition & Production, Photography, Film Development, Labor Economics, Psychology