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Education

Georgia Institute of Technology | Atlanta, Georgia

May 2026

- Candidate for Bachelor of Science in Computer Science. *Speciality*: **Cybersecurity & Privacy and Intelligence**
- *Relevant Coursework*: Automata & Complexity; Critical Infrastructure Security and Resilience; Cybersecurity of Drones; Machine Learning, Natural Language Processing; Introduction to Reverse Malware Engineering
- *Skills*: Assembly (x86), C, Docker, Git, Python (PyTorch), Java, TypeScript, ArduPilot, Censys, IDA Pro, Shodan

Research & Projects

Reasoning and Learning Group | Georgia Institute of Technology

Apr. 2025 – Present

- Architected **post-training infrastructure** to adapt open-source Large Language Models (LLMs) for scientific discovery in Material Science.
- Performed **Supervised Fine-Tuning (SFT)** with **LoRA** adapters and automated **Model Evaluation** benchmarks on 5 LLMs, utilizing **vLLM** for inference and multi-agent worker pools to increase evaluation throughput **85%**.
- Engineered a **Reinforcement Learning (RL)** with **Symbolic Feedback** pipeline utilizing **Group Relative Policy Optimization (GRPO)** with varying binary, syntax, semantic, and physics certificate-based verifiable rewards.
- Constructed novel SFT dataset by filtering **2M+** brute-force modifications down to **60k** samples, then generating reasoning traces and hypotheses using a **32B** LLM.
- Wrote optimized GPU Slurm scripts to orchestrate **distributed, multi-GPU** post-training runs on **HPC** clusters.

CPSec: Cyber-Physical Systems Security Lab | Georgia Institute of Technology

Nov. 2025 – Present

- Investigating internet-exposed **maritime** infrastructure and vessels by using **Censys** and **Shodan** to identify **NEMA 0183/2000** protocol signatures.

Work Experience

Amazon Web Services | Associate Cloud Consultant Intern | Remote

May 2021 – Dec 2021

- Led a team of 4 interns in architecting an Automated Security and Compliance Cloud CI/CD **DevOps** pipeline with **AWS CDK** for Government Deliverables, frameworks include HIPAA, NIST 800-53, and PCI-DSS.
- Projected **40% reduction** in **Authority-to-Operate (ATO)** approval timelines for Government Customers.

Datadog | Product Manager Intern | Product Strategy, Cloud Security | Remote

Aug 2020 – Dec 2020

- Led **Compliance Monitoring** new product beta program by onboarding, managing deployments, and collecting product feedback from **300+ enterprise customers** across AMER, EMEA, APAC, and LATM.
- Performed security posture assessments and routinely drove **new product pitches** to stakeholders ranging from **Governance Risk and Compliance (GRC)**, Security, Executives across Startups, Fortune 500s, and Government.
- Reduced Product Team research time **50%** by automating AWS and Azure detection rule analysis.

Cloudflare | Product Manager Intern, Product Strategy, Emerging Technology | Remote

May 2020 – Aug 2020

- Led **0-to-1** development of **Cloudflare Radar**, a real-time internet intelligence platform leveraging Cloudflare's Global network and anonymized data from 1.1.1.1 public DNS resolvers.
- Synthesized **trillions** of raw passive **measurement data points** into a queryable interface to analyze global internet traffic patterns, L3 and L7 OSI layer attacks, internet disruptions, and protocol adoption trends.
- Drove **cross-functional** development teams of executive leadership, threat intelligence, engineering, and design to scale the initiative from idea to new product release during Cloudflare's 2020 Birthday Week within **12 weeks**.

Microsoft | Program Manager Intern, Team Xbox, PC Gaming | Redmond, WA

May 2019 – Aug 2019

- Led transformation of the **Xbox Game Bar Audio Widget** by driving user research research, rapidly ideating with design and engineering teams. New features shipped during **Windows RS5+ Release** in Fall 2019.

Microsoft | Software Engineer Intern, Team Xbox, Gaming Experiences | Redmond, WA

May 2018 – Aug 2018

- Developed a functional picture-in-picture streaming experience prototype for **Xbox Game Bar on Windows**.