Ethan Young

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Education

University of Nevada, Las Vegas — Las Vegas, NV
Bachelor of Science in Computer Science — *Expected May 2027*

- **Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Analysis of Algorithms, Operating Systems, Intro to Machine Learning, Cloud Computing
- **Honors:** Dean's Honor List; Charter Member, IEEE-HKN Honor Society
- **Activities:** Officer, ACM Student Chapter

Experience

AI Software Engineer Intern — June 2026 – Present
Symphonix Systems — *Remote/Hybrid*

- Co-developed **17 specialized, single-purpose AI agents** and contributed to a multi-agent orchestration flow using **dynamic routing** to dispatch tasks based on domain context.
- Integrated a **hybrid SQL/MongoDB persistence layer** to store and retrieve execution context and prior state, including error logs and tmux sessions, improving data retrieval for recurring agent workflows.
- Built an **LLM-as-a-Judge testing harness** to automate validation of agent behavior and output integrity.

Systems & Infrastructure Intern — April 2026 – Present
University of Nevada, Las Vegas (OIT) — *Las Vegas, NV*

- Supported decommissioning of a **High-Performance Computing (HPC) cluster** by documenting and auditing **GPU compute servers** and InfiniBand networking hardware to support secure asset recovery.
- Audited **fiber pathways** across multiple facilities and synchronized physical assets with **Schneider Electric EcoStruxure DCIM** records to improve data center infrastructure accuracy.
- Reviewed network/security logs with IT operations staff to identify **anomalous SNMP authentication events**; used **DNS/MAC lookup** tools to help trace source devices.

Network Engineer Intern — March 2025 – April 2026
University of Nevada, Las Vegas (OIT) — *Las Vegas, NV*

- Collaborated with a 15-person team on a campus-wide **Cisco-to-Juniper migration** (∼**4,500-device** network), supporting switch rollouts, wireless AP replacements, and cutover connectivity testing.
- Built **Juniper switches** from the box, installing network modules and power supplies, then **configured and delivered** each one to its assigned IDF.
- Developed standardized configuration templates and **automated IP management workflows** that helped maintain consistent VLAN/port-level logic across assigned switch groups in a **660+ switch** environment.

Projects

Personal Cloud Infrastructure & Deployment Platform | *Docker, Caddy, OCI, Linux* — 2026 – Present

- Architected a containerized hosting environment on an **Oracle Cloud Infrastructure (OCI) ARM instance** to deploy and manage independent web services and APIs.
- Implemented an automated edge proxy using **Caddy**, enabling dynamic subdomain routing and zero-touch **automatic HTTPS** for all hosted applications.
- Orchestrated service deployment via **Docker Compose**, using **custom bridge networks** to isolate environments and control cross-container communication.
- Enforced **SSH key-only authentication** and **cloud-level ingress firewall** rules that allow only web traffic.

Rebel Locate | *Python, PyTorch, scikit-learn, NumPy* — Jan. 2025 – May 2025

- Independently implemented a UNLV building geolocator for a 5-person team project; a **KNN classifier** on photo EXIF GPS data predicts the nearest building with **98.01% accuracy** (6,000+ images).
- Fine-tuned a **Places365-pretrained ResNet-18** on the predicted building's photos to label room type with **91.83% accuracy**, keeping near-duplicate shots in the same train/test split to prevent leakage.

Technical Skills

Languages: Java, C++, C#, C, Python, SQL, x86/MIPS Assembly
Cloud, DevOps & Data: Docker, Caddy, Linux, OCI, AWS, Git/GitHub, PostgreSQL
Networking & Infrastructure: Juniper Junos, Cisco IOS, Infoblox, NetBox, SolarWinds, OpManager, EcoStruxure