

Theo Ma

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Education

University of Michigan, College of Engineering

Ann Arbor, MI

Bachelor of Science in Engineering, Computer Science with an International minor

Aug. 2023-May 2027

- GPA: 4.00, Engineering Honors, Dean's List, William J. Branstrom Freshman Prize
- Courses: Algorithms & Data Structures, Linear Algebra, Multivariable Calculus, Discrete Mathematics, Statistics, Theory of Computer Science, Computer Organization
- Activities: Engineering Global Leaders (EGL), Michigan Data Science Team (Reinforcement Learning Subteam), Michigan Hackers (Web Subteam), MASA, WolvSec

Vrije Universiteit Amsterdam

Amsterdam, NL

Study Abroad, Semester in Amsterdam

Jan. 2025-May 2025

- Courses: Computational Intelligence, Text Mining for AI, Software Design, Basic Dutch Language (A1)

Work Experience

Roblox

San Mateo, CA

Software Engineering Intern

Jun. 2025-Aug. 2025

- Implemented the end-to-end **design, development, and deployment** of Synapse, a **ReAct LLM agent** that autonomously collects and analyzes relevant information to answer questions about Roblox's network infrastructure, achieving a **90% accuracy, reducing workload** for on-call engineer, and **pioneering** NetEng's AI initiatives.
- Developed and deployed an **MCP server** to integrate Synapse with NetDB, Roblox's authoritative database for network infrastructure, enabling the agent's ability to provide live, accurate information about the infrastructure and changelogs.
- Created a chatbot user interface within NetDB's UI and presented the product to the NetEng team, addressing their **feedback** and **concerns** and facilitating seamless integration into daily operations.

Cisco

Research Triangle Park, NC

CX Data Center Engineer Intern

May 2024-Aug. 2024

- Wrote scripts in Python for a major client that use an internal API to automate **gathering** and **analysis** of faults across a dozen ACI fabrics, saving the customer **hundreds of hours** each month in troubleshooting and early remediation
- Created an internal dashboard to facilitate the creation and discovery of stretch assignments, enabling future early-in-career engineers to take on new projects, learn new skills, and further their professional development

Project Experience

NetBox SD-Access Plugin

Jun. 2024-Aug. 2024

- Developed database models supporting Cisco SD-Access Fabric Sites, IP Pools, and Devices using Django, extending NetBox's functionality to support the creation and documentation of Cisco SD-Access and SD-WAN features
- Published plugin to an open source repository to enable network administrators to create a single source of truth for Cisco SD-Access deployments

Synnax Software | Michigan Aeronautical Science Association (MASA)

Sept. 2023-Apr. 2024

- Revised and improved the telemetry library by adding validation checks to ensure channel consistency, reducing the likelihood of human error and improving user experience.
- Developed a math parser library in Go with support for custom variables, order of operations, and boolean expressions, enabling greater flexibility and control over automation of valves

Additional

- **Programming Languages:** Python, Java, C++, HTML, CSS, JavaScript, Go
- **Certifications:** Cisco Certified Network Associate (CCNA), Cisco Certified DevNet Associate
- **Skills:** Computer Networking, TCP/IP, IP Routing, OSI Model, Switching, Circuits, Arduino, Soldering, Git, Data Visualization, REST API, Django, Docker, Machine Learning, PyTorch, Prompt Engineering, Context Engineering, MCP