

Theo Ma

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Education

University of Michigan, College of Engineering

Ann Arbor, MI

Bachelor of Engineering in Computer Science

Aug. 2023-May 2027

- GPA: 4.00, 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: Michigan Data Science Team (Reinforcement Learning Subteam), Michigan Hackers (Web Subteam), MASA, WolySec

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

Work Experience

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

Deepblocks

Miami, FL

Lead Software Intern

Jun. 2022-Aug. 2022

- Led a team of 6 software interns to develop scripts using Python and download over 30,000 GeoJSON files from municipal databases of over 100 cities in the span of 2 weeks
- Facilitated collaboration by setting up clear communication channels between the software and marketing teams
- Created comprehensive documentation on the web scrapers so future teams would be able to build off of our work

Project Experience

NetBox SD-Access Plugin

Jun. 2024-Aug. 2024

- Built a development environment using Docker and VS Code Dev Containers, and created documentation on how to replicate the environment
- 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, 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 to provide greater control and 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