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 2026
- GPA: 4.00, Dean's List, William J. Branstrom Freshman Prize
- Courses: Algorithms & Data Structures, Multivariable Calculus, Discrete Mathematics, Linear Algebra, Statistics
- Activities: Michigan Data Science Team (Reinforcement Learning Subteam), Michigan Hackers (Web Subteam), MASA, WolvSec

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

NASA Techrise Student Challenge — Oct. 2021-Oct. 2022
- Founded a team of 5 to design an experiment to be conducted on board a suborbital rocket, leading the team to be the only one selected as a winner in Florida
- Collaborated with engineers at NASA and FutureEngineers to design circuits, 3-D print components, and write code in C++
- Troubleshooted and resolved dozens of hardware and software issues on Arduino Metro M4 microcontroller to ensure that the experiment will run smoothly once launched

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