Ethan Rylko

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EDUCATION

Michigan State University, East Lansing, MI — August 2020-May 2024
- Bachelor of Science, Computer Science and Applied Engineering Sciences
- Concentration in Supply Chain Management and Minor in Business
- GPA 3.81, Honors College, Dean's List for all semesters

JOB EXPERIENCE

IT Infrastructure Intern, Sleep Number Corporation, Remote — May 2022-August 2022
- Work with team to create Grafana monitoring applications operating on the cloud
- Create scripts responsible for pushing hundreds of metrics per hour from Oracle databases
- Write and deploy services on Linux servers to scrape data using Python and Prometheus

Teaching Assistant, Michigan State University, East Lansing, MI — January 2022-Present

CSE 320, Computer Organization and Architecture — Spring 2022, Spring 2023
- Guided students through topics such as digital logic, microprocessors, and ARM Assembly
- Lead help rooms by delivering personalized assistance to tens of students twice a week
- Answer over 300 questions a semester on the class forum with timely, specific advice

CSE 460, Introduction to Computability and Formal Language Theory — Fall 2022
- Educated students in automata theory, solvability, regular languages, and other topics
- Answer questions on the class forum for an average response time of under 15 minutes
- Grade assignments, quizzes, and exams within a week including personalized feedback

Research Assistant, Michigan State University, East Lansing, MI — September 2020-August 2021
- Tune hyperparameters for a machine-learning based model for 3D object detection
- Optimize algorithm for use on single-board computers such as Raspberry Pi and NVIDIA Jetson
- Implement algorithm with a camera attached to the arm of an electric wheelchair

HONORS AND AWARDS

Alumni Distinguished Scholarship Commended Semifinalist
IBM Cybersecurity IT Fundamentals Specialization Certificate

TECHNICAL SKILLS

Experienced: C, C++, Microsoft Office (Excel, PowerPoint, Word), Python
Intermediate: Git, Java, Linux, MATLAB, Object-Oriented Design
Basic: Agile Methodology, ARM Assembly, HTML/CSS, Javascript, NumPy, RStudio, Siemens NX

ACTIVITIES

FIRST Robotics, Animation Subteam leader, Programmer, Field Builder — 2014-2020
- Programmed in a collaborative environment using Java and Git for FRC Team 245, Adambots
- Utilized OpenCV to write a computer vision-based targeting system for launcher

Triangle Fraternity, Member Educator, Judicial Board, Brother — 2021-Present
- Promote the welfare of the professions of engineering, science, and architecture
- As a Member Educator, instruct 18 new members of the organization's values and standards

Leadership Advantage, Secretary, Facilitator, Participant — 2020-Present
- Facilitate teambuilding activities for freshman engineers in preparation for the transition to college
- As Secretary, carry out transparent, timely, and effective communication within the organization

Boy Scouts of America, Eagle Scout — 2013-2020
Order of Omega, Member — 2021-Present
MSU Society of Applied Engineering Sciences, Director of External Relations — 2022-Present
Deloitte Cyber Threat Competition, Participant — 2023