

Zachary Marabeas
Computer Science Student

Summary: Results-driven Computer Science student with a strong technical background and a passion for programming and robotics. With 2 years of professional software development experience and 5 years as an instructor in programming and robotics, coupled with 8 years of management experience in the service industry, I bring a unique blend of technical expertise and leadership skills to the table.

Work Experience

Instructor - Schoolcraft College - June 2018 - Present

- Developed and delivered comprehensive programming workshops for students, aiming to instill a solid understanding of programming fundamentals.
- Designed hands-on robotics projects to nurture students' interest in STEM fields, particularly in autonomous systems and controls.

Mentor - First Robotics - March 2016 - Present

- Guided and mentored teams in designing and implementing autonomous systems and controls for competitive robots, fostering innovation and problem-solving skills.
- Provided specialized instruction in programming, imparting knowledge in languages such as Java, C++, and Python, ensuring teams' success in robotics competitions.

Manager - Primo's Pizza - April 2010 - Present

- Managed daily operations, including overseeing a team of employees, maintaining stock inventory, and ensuring top-tier customer service and delivery operations.

Technical Experience

Software Development - Freelance - February 2021 - present

- Collaborated with a local pizzeria to build a full-stack Point of Sale (POS) system. Worked closely with the client to identify requirements and created a user-friendly interface. Developed the frontend using JavaScript and Svelte and established a robust backend with MongoDB. Integrated external Heartland APIs for secure online payments.
- Developed features such as a menu interface, customer data management, and online payment processing

Neural Networks - Independent Study - January 2018 - April 2018

- Developed a foundational neural network library in Python to explore and experiment with various network architectures. Utilized visualization techniques to gain real-time insights into network performance, optimizing model training and validation processes.

Education

Wayne State University - Grand Valley State University: Bachelor of Computer Science

- Graduating December 2024

Skills

Programming Languages: Svelte, JavaScript, HTML/CSS, Python, Linux, NodeJS, Bash, C

Database Management: MongoDB

Robotics Expertise: CAN bus, Arduino, Controls, Autonomy

UI/UX Design: Proficient in creating intuitive and visually appealing interfaces

Contact Information

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