MACY GRAVES

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EXPERIENCE

MassRobotics • Boston, MA • Software Development Intern   *January 2025 – April 2025*

- Built a Python script to filter and present robot company locations on the MR Ecosystem Map
- Overhauled and created content for the National Robotics Week 2025 website
- Debugged search filters and component cards in PHP and Twig to accurately show new content
- Deployed changes using Craft CMS, SFTP and SSH

MassRobotics • Boston, MA • STEM Intern   *May 2024 – July 2024*

- Taught educational sessions introducing students to robotics, electronics, coding, and soldering
- Assisted students in building drones and blue tech rovers during weeklong academies

University of Massachusetts, Amherst Soccer Team • D1 Athlete   *July 2021 – November 2025*

- Liaise with coaching staff on an on-going basis to enhance team cohesiveness, Fall 2025 Captain
- Balanced academics and travel, remaining on Dean's List for all five seasons

RECENT PROJECTS

Campus Quest Web App *~ TypeScript / React / Vite / Supabase / Tailwind / Mapping / Game Design*
Created a web application to encourage college students to attend campus events through a gamified treasure hunt.

Malware Detection with ML *~ Python / Yara / Scikit-learn / Dataset Creation / ML Model Train and Test*
Simulated malware in a set of benign PDF files to train and test a simple ML model in comparison to a Yara scan using Python.

RISC-V like ISA Design *~ Golang / TUI / Assembly / Computer Architecture* / hardware logic
Designed and simulated an ISA using Golang and a TUI to visualize the memory and pipeline.

EDUCATION

University of Massachusetts, Amherst • B.S. Computer Science   ***GPA****: 3.84*   ***Grad****: 2025*
University of Massachusetts, Amherst • Online M.S. Computer Science   ***GPA****: 3.9*   ***Grad****: 2028*

SKILLS

Technical: experience with TypeScript, Python, C/C++, Go, relational algebra for DBMS, some Assembly
Tools & Libraries: NodeJS, React, Angular, Vite, SQL and NoSQL DBs, Git, HTML/CSS/Tailwind, Pandas, Scikit, PyTorch, Arduino Figma, Agile practices
Soft: teamwork, discipline, problem solving, leadership, attention to detail, organization, adaptability