Maxwell McGee

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Education

The Ohio State University – Columbus, Oh
Computer Science and Engineering BS

August '23 - *Present*
Graduating May 2027

Experience

OSU Moritz College of Law – Columbus, Oh
IT/AV Technician

September '24 - *Present*

- Assists professors with setting up AV equipment and recording systems for lectures and presentations
- Manages and coordinates technical setup for large events of 70+ participants
- Provides timely IT support to faculty, staff, and students, troubleshooting and resolves technical issues

OSU Libraries – Columbus, Oh
Security Officer

August '23 - May '24

- Monitored library capacity to maintain fire code
- Provide information services to library patrons

Worthington Industries – Worthington, Oh
Design Engineer Intern

February '23 - August '23

- Created 100+ product models in Solidworks and drawings to meet company's new CAD standards
- Met with plant managers to facilitate product approval process
- Converted and digitized over 1,000 legacy product drawings with autoCAD and Solidworks

See3d – Columbus, Oh
Web Development Intern

August '22 - December '22

- Implemented an embedded donation system with PUG
- Programmed a Python web-scraper to transfer 150+ Thingiverse model details to a Shopify page
- Made UX improvements to the website homepage with JS, CSS and HTML

Activities

Embedded Security Club
Co-Founder, Treasurer and Web-Master

January '24 - *Present*

- Manages club funds, coordinates fundraising and organizes purchases
- Teaches bi-weekly cyber security lessons (ex: serial communication, hashing, component validation)
- Recruited new members to double roster size in the first year
- Created clubs webpage at **osuembeddedsecurity.club** using GitPages and Bootstrap

Projects

MakeOHI/O X
Tracking Camera

March '24

- Created a python application using openCV that tracks a user's face and sends serial communication
- Programmed an Arduino with C++ to use serial inputs to control a motor's rotation

Mitre eCTF '24
Microcontroller Supply Chain Security

January '24 - April '24

- Competed with a team in Mitre's embedded CTF for the first time at OSU
- Ensured security of data on device during build process and deployment using AES encryption in wolfSSL
- Kept passwords and tokens confidential during deployment using SHA 256 hashing in python and wolfSSL
- Performed offensive attacks on other designs using memory dumping, MITM attacks, code injection, etc

Portfolio Website
maxemcgee.com

October '24

- Created my own website using Bootstrap and GitPages to share my projects and resume

Awards

Trustees Scholarship

Skills

Languages: Java, C, C++, Python, JS, HTML, CSS, PUG
Libraries: openCV, wolfSSL, openSSL, pyCryptodome, Selenium, YOLO, Bootstrap
Computer Aided Design: Solidworks, AutoCAD, Onshape, TinkerCad, Cura