Ethan McKissic

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Education

University of Central Florida Aug. 2023 - May 2027
Bachelor of Science in Computer Science ***GPA: 3.7***

- **Relevant Coursework**: C Programming, Data Structures and Algorithms, Discrete Structures, Object Oriented Programming, Systems Software, Security in Computing
- **Awards/Honors**: Dean's list Fall 2024, Spring 2024 and Fall 2023, Florida Academic Scholar

Technical Skills

Languages: Python, Java, C, SQL, HTML, CSS, JavaScript.
Frameworks: Flask, React, Bootstrap
Tools/Technologies: Git, GitHub, Linux, Bash, Docker, MySQL, VS Code, Eclipse, Vim, VirtualBox
Other: Excel, Word, PowerPoint, LaTeX

Experience

ShellHacks Sept. 2024
Hacker *Miami, FL*

- **Won 2nd place** in Chainguard's Wolfi OS Container Security challenge at Florida's largest hackathon as a **first-time participan**t against **50+** competitors.
- **Led the effort** to support teammates in familiarizing themselves with essential technologies, fostering collaboration, and ultimately boosting our overall performance.
- Successfully delivered a functional application within a limited **36-hour time frame,** enhancing my leadership and development skills while boosting my confidence for future software projects.

Projects

Cloud Vault | *HTML, CSS, JavaScript, Python, Flask, Docker, Wolfi* Sep. 2024 – Oct. 2024

- Developed a **full-stack** file handling application using **Python** and **Flask** while focusing on **encryption** and secure transmission via **SSL certificates** and **HTTPS**.
- Utilized **containerized deployment** with **Docker**, ensuring consistent configurations across all systems while reducing potential attack surfaces by **98%** with **Wolfi**.
- Focused on convenience and security for individuals and small businesses, with assessments reporting **0 known vulnerabilities**.
- Implemented a sleek, cutting-edge user interface in **HTML, CSS, and JavaScript**, prioritizing simplicity and usability for seamless file uploads.

MySPIM | *C, Linux, Bash* Mar. 2024 – Apr. 2024

- Developed a cycle-accurate simulator for a **MIPS processor** in **C**, capable of reading machine code, decoding instructions, and executing essential operations, enhancing my expertise in low-level data handling and assembly.
- Implemented the single-cycle datapath architecture, solidifying my understanding of the instruction fetch, decode, execute, memory, and write-back stages of processor design.
- Engaged in collaborative **code reviews** with peers, integrating constructive feedback to refine the simulator's architecture, significantly enhancing robustness and efficiency.

Involvement

Member and Mentee Mar. 2024 – Present
Hack@UCF *Orlando, FL*

- Secured an **Ubuntu Linux** system and **MySQL** database during the Horse Plinko Cyber Challenge by implementing system administration practices such as firewall configuration, log monitoring, and system hardening, maintaining a server uptime of over **90%.**
- Actively participated in meetings, workshops, and hands-on challenges on ethical hacking, network security, Linux sysadmin, and OSINT, utilizing platforms like HackTheBox, TryHackMe, and PicoCTF for practice.

Member Oct. 2023 – Present
KnightHacks *Orlando, FL*

- Participated in workshops, hackathons, and coding sessions to explore advanced programming concepts and collaborate with peers to develop projects and solve real-world problems.
- Engaged in discussions on programming languages, emerging technologies, and development tools, enhancing my understanding of the software development life cycle.