Andrew Verzino

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U.S. Citizen

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing **Atlanta, Georgia**
Bachelor of Science in Computer Science *May 2025*
- Threads: Systems & Architecture, Information Internetworks *GPA: 4.00*

PROFESSIONAL EXPERIENCE

DASSAULT FALCON JET **Little Rock, Arkansas**
Developer Intern *May - August 2023*
- Researched new and current development practices while creating technical documentation.
- Developed frontend/backend solutions for applications

RELEVANT PROJECTS

EMBEDDED SYSTEM CYBER SECURITY – WYZE SECURITY CAMERA SUBTEAM **Atlanta, Georgia**
Georgia Tech Research Institute, Vertically Integrated Project (VIP) *August – December 2022*
- Implemented a multi-domain investigation through hardware reverse engineering, software/firmware reverse engineering, RF analysis, and static and dynamic testing through instrumentation.
- Utilized software tools like Ghidra to perform static analysis on the Wyze camera's memory and data structures.
- Executed RF fuzzing on the camera to monitor its application and discover vulnerabilities in the code.
- Recorded Over-The-Air Traffic and operated the SmartRF Packet Sniffer to deconstruct packets sent between the sensors and the camera.

HUNGRY VIPERS GAME – CLASS PROJECT **Atlanta, Georgia**
- Used ARM Mbed microcontroller to create a 2D Hungry Vipers game using C/C++. *Fall 2022*
- Implemented hash maps with open-chaining in C to store and utilize game items efficiently.

RELEVANT COURSEWORK

- **Programming for Hardware/Software Systems:** Creation of complex execution and storage mechanisms, based on MIPS ISA, for software design, including high-level programming languages such as C/C++ and operating systems.
- **Data Structures and Algorithms for Applications:** Computer data structures and algorithms in the context of object-oriented programming. Focus on software development towards applications.
- **Objects and Design:** Object-oriented programming methods for dealing with large programs. Focus on quality processes, effective debugging techniques, and testing to ensure a quality product.

LEADERSHIP EXPERIENCE

SIGMA ALPHA EPSILON FRATERNITY (ΣAE) – GEORGIA PHI CHAPTER **Atlanta, Georgia**
Member Educator *December 2022 - Present*
- Responsible for the growth and development of Georgia Tech recently initiated members and the entire chapter.
- Operated and complied with a $625 budget.
- Developed and provided oversight to numerous events and exercises focused on leadership and development.

BLOCKCHAIN CLUB @ GEORGIA TECH **Atlanta, Georgia**
General Meeting Coordinator *August – December 2022*
- Developed and established a weekly research and meeting agenda among committee members.
- Reviewed social media outlets and online forums to obtain relevant blockchain landscape information.
- Utilized MS Office to create informative presentations for general assemblies.
- Promoted discussion and debate on various blockchain topics among members during general assemblies.

SKILLS

Languages: Python, C, C++, MIPS, Java, JavaScript, HTML, CSS
Technologies: Arduino, Mbed, ReactJS, Git