

Clay Castronovo

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EDUCATION

M.S. Computer Science	Expected Dec 2024
B.S. Computer Science; Statistics Minor	Expected Dec 2023
Arizona State University, Tempe, AZ	Major GPA 4.0

TECHNICAL SKILLS

Programming Languages: Java, C/C++, C#, Python, Bash, MATLAB, JavaScript, Arduino

Tools, Databases, and OS: React, SQL, Git/GitHub, Linux/Unix, QRadar, CrowdStrike, Defender, McAfee, Windows, MacOS

PROFESSIONAL EXPERIENCE

BAE Systems, Nashua, NH: Technical Intern IV	May 2023 – Aug 2023
<ul style="list-style-type: none">Created a MATLAB GUI application from the ground up using OOP principles to simulate a radar beam patternLed my software team of 3 people and coordinated with several other teams in the creation of a direction finder which utilized 5 Raspberry Pis connected via a network switch using Python, C++, and an Arduino microcontroller	
VF Corporation, Remote: Security Platforms Administrator/Data Analytics Intern	Jun 2022 – March 2023
<ul style="list-style-type: none">Worked on several projects across the Security Platforms Administration team on platforms including: QRadar, CrowdStrike, Microsoft Defender, McAfee, Tanium, and dmarcian to increase company cyber securityListened to domain analysis from the security operations center and blocked hundreds of malicious domains	

RELEVANT PROJECTS

Social Media Web Application, Group Class Project	Spring 2023
<ul style="list-style-type: none">Created a JavaScript front-end using React which allowed users to login, create accounts, and create postsThe front-end connected to a back-end SQL database through a Python API middle-end to store all data	
Service-Oriented Web Application, Class Project	Fall 2022
<ul style="list-style-type: none">Created a WSDL service utilizing Yelp API which found the closest specified restaurant to a given zip codeCreated a RESTful service which encrypted user ticker information to create a ticket verification number	
In-band Network Telemetry Problem, Class Project	Fall 2021
<ul style="list-style-type: none">Developed an application in C++ which solved a theoretical In-band Telemetry ProblemImplemented the Floyd-Warshall and greedy algorithms to find the shortest-path between each vertex in a connected undirected graph. Inserted virtual edges in the graph to find a Euler Circuit to traverse entire Graph	
Lexical Analyzer, Class Project	Fall 2022
<ul style="list-style-type: none">Developed a C++ application to perform lexical analysis on any list of tokens specified using regular expressionsDesigned a recursive descent parser to perform syntactical and semantical analysis on the list of tokens	

WORK EXPERIENCE

Arizona State University, Tempe, AZ: Undergraduate Teaching Assistant, CSE365	Fall 2022
<ul style="list-style-type: none">Assisted hundreds of students in a flipped classroom setting with their first introduction to CTF challengesThese challenges included topics such as: privilege escalation, network protocol analysis, and memory exploitation	

EXTRACURRICULAR EXPERIENCE

Software Developers Association	Spring 2022 – Present
Attended weekly meetings to further my knowledge and gain experience in software development	
ASU Hacking Club	Spring 2022 - Fall 2022
Attended weekly meetings and participated in solving CTF exercises to further my knowledge and skills in penetration testing	
Pi Kappa Alpha Fraternity	
Member of Rush Committee	Fall 2021
Member of Philanthropy Committee	Spring 2022