Kenny Nguyen

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EDUCATION

University of Central Florida Orlando, FL

Bachelor of Science in Computer Science Expected May 2025

Minor: Secure Computing and Networks

Relevant Coursework: Computer Science I-II, Object-Oriented Programming, Security in Computing, Cryptography and Information Security, Network Security and Privacy, Secure Operating Systems and Administration, Cyber Defense Analysis

Valencia College Orlando, FL

Associate of Arts in General Studies December 2021

CERTIFICATIONS & SKILLS

Certifications: CompTIA Security+ (SY0-701), TestOut CyberDefense Pro, SBT Intro to OSINT

Technical Skills: Python, C, C++, Java, JavaScript, Software Development Life Cycle (SDLC), OpenSSL, Unix, SIEM (Splunk), PowerShell, pfSense, Kibana, Wireshark, Linux and Windows Services Management, Nmap, Zenmap, netstat, Metasploit, Node.js, Playwright, Figma, Webflow, React, HTML/CSS

EXPERIENCE

National Security Innovation Network *January 2024 – Present*

Team Lead, Project Mercury Developer

- Developing and maintaining features for a mobile and web application to enhance communication among United States Army Reserve service members, ensuring scalable and secure code
- Collaborating with a team of 30 using Agile methodologies and Jira, ensuring timely delivery of high-quality code through continuous integration, code reviews, and version control
- Implementing software engineering best practices while adhering to strict confidentiality

BNY Mellon Shadowing Program *August 2024*

Invited Student Observer

- Discussed software development processes with BNY Mellon engineers, focusing on secure financial application deployment
- Explored risk and compliance management through conversations about regulatory frameworks and compliance tools
- Gained insights into business continuity and incident response by learning from BNY Mellon's planning and mitigation strategies

PROJECTS

File Integrity Checker *August 2024 – Present*

- Developed a C++ application to calculate and verify SHA-256 hash values, ensuring file integrity and detecting unauthorized changes
- Integrated MalwareBazaar API to check file hashes against a database of known malicious files, enhancing the security capabilities of the application by identifying potential threats
- Utilized OpenSSL for cryptographic functions and implemented secure storage and retrieval of hash values

Discrete Logarithm Solver & Cipher Decryption *February 2023*

- Developed and optimized Python algorithms for solving the Discrete Logarithm problem, improving runtime from O(p) to O(√p) using HashMap techniques
- Decrypted classical ciphers with Python, successfully identifying and cracking Playfair and Fibonacci-based ciphers
- Achieved up to 96% faster performance in cryptographic computations by enhancing algorithmic efficiency