

# RAHAM BUTT

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## EDUCATION

### Hofstra University

Bachelor of Sciences in Computer Science and Cybersecurity  
Masters in Computer Science - Networking and Security

Hempstead, NY

December 2025

May 2026

### Relevant Coursework

Ethical Hacking, Data Structures & Algorithms, Software Engineering, Operating Systems, Secure Networking

GPA: 3.61

### Research Thesis

Zero Knowledge Proof Systems for Field Programmable Gate Arrays - Raham Butt, Dr. Xiang Fu

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Rust, Java, C, JavaScript, SQL (Postgres), MASM Assembly, PHP, Dart

**Cyber Tools:** Ghidra, IDA free, Metasploit Framework, Wireshark, GDB, Burp Suite, Kali Linux, ReverseRaider, Nmap, TCPdump

**Developer Tools:** Git (version control), Docker, Linux/Unix, Vim, VS Code, CI/CD pipelines

**Analysis & Monitoring:** Reverse Engineering, Log analysis, network traffic analysis, memory forensics, threat modeling

**Libraries:** Pandas, NumPy, Matplotlib, Sklearn, PWN, Scapy (packet manipulation)

## EXPERIENCE

### Computer Science Tutor

January 2025 – Present

Department of Computer Science at Hofstra University

Hempstead, NY

- Tutored students in Discrete Mathematics I-II and Introduction to Programming I-III, translating complex technical concepts into accessible explanations for diverse audiences
- Assist 25+ students with python lab and provide step by step explanation
- Evaluate student Python, C++, and Java code, providing feedback to improve coding skills during weekly office hours

### Student Technician

October 2022 – Present

Maurice A. Deane School of Law at Hofstra University

Hempstead, NY

- Resolved issues with Outlook, Virtual Machines, Network Environments, Printers, and Mobile Applications
- Managed, maintained, upgraded and re-imaged 50+ machines for faculty and administrators
- Trained and mentored 13+ technicians over 3 years, enhancing team skills and productivity
- Troubleshoot, fix and replace zoom equipment in all classrooms and lecture halls

## PROJECTS

### Offensive Security and Exploit Development | Advanced Cybersecurity Techniques

September 2024 – December 2024

- Developed custom Metasploit modules and conducted different attack simulations in controlled environments
- Performed binary analysis and reverse engineering using GDB, Ghidra and IDA free identifying buffer overflow vulnerabilities and implementing defensive countermeasures
- Exploited web application vulnerabilities (SQLi, command injection) and produced security assessments with risk analysis
- Analyzed memory dumps and core files to diagnose crash root causes and identify security-critical issues

### AirSecure | Rogue Access Point Detection

September 2024 – May 2025

- Led 4-person team developing hardware-based wireless threat detection system to identify rogue access points
- Designed RFC decision tree algorithm for threat classification, balancing false positive rates with security coverage
- Served as Scrum Master managing Git workflow and security requirements through code reviews
- Presented security design tradeoffs to technical and non-technical audiences, fostering security awareness and best practices

### phishNet | ML-Based Phishing Detection & Threat Monitoring

February 2024 – May 2024

- Led development of Chromium-based extension, achieving 87% accuracy in real-time phishing detection
- Designed backend threat classification system with text processing algorithms, static analysis and RFC decision tree
- Served as Scrum Master, coordinating collaboration and presenting technical findings to stakeholders
- Implemented alert system for suspicious URL patterns, applying threat intelligence to improve detection capabilities

### Linux Security Administration | System Hardening & Incident Response

October 2023 – December 2023

- Configured and hardened Linux systems with Apache and SSL/TLS, reducing attack surface through vulnerability assessment
- Implemented LDAP authentication with security controls, applying defense-in-depth principles for access management
- Performed system call tracing and network analysis using tcpdump and strace to identify anomalous behavior patterns
- Diagnosed and remediated network security incidents through methodical troubleshooting, improving incident response

## EXTRACURRICULAR EXPERIENCE & ACHIEVEMENTS

**Founder & President** | Hofstra C.O.D.E

September 2023 – May 2025

**Chapter Chair** | ACM Chapter at Hofstra

September 2024 – August 2025

**Achievements** | Winner Pensar AI Hackathon, 7x Deans List recipient

**Capture the Flag** | Winner Pros vs Joes (Delaware 2025), Winner Amazon CTF (2025), Finalist Amazon CTF (2023)