PARTH PATEL

Cybersecurity & Security Operations Graduate | Massachusetts | Ohio
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PROFESSIONAL OBJECTIVE

Cybersecurity and Networking-focused Computer Science graduate with hands-on experience in network security, cryptography, IoT systems, Linux, and traffic analysis. Seeking an entry-level SOC Analyst, Security Operations, or NOC role to support threat detection, secure network operations, and incident response.

EDUCATION

Bachelor of Science – Computer Science | University of Massachusetts Boston | December 2025

Relevant Coursework: Cybersecurity in IoT, Operating Systems, Computer Networks, Data Structures, Advanced Algorithms, Programming in C, Compiler & Higher-Level Languages, AI (Foundational), Database Management Systems

TECHNICAL SKILLS

Security & Networking: Incident monitoring & alert triage | TCP/IP, DNS, DHCP, OSI Model | ARP spoofing, MITM, DoS attacks | HTTPS & TLS fundamentals | IoT security & privacy | Traffic & packet analysis | Log analysis fundamentals

Operating Systems: Linux (CLI, permissions, SSH, SCP) | Windows fundamentals | Raspberry Pi configuration

Security Tools: Wireshark | Cisco Packet Tracer | Linux CLI | SSH/SCP | SIEM concepts

Programming (Foundational): C, C++, C#, Java, Python, HTML, CSS, JavaScript, WebGL

WORK EXPERIENCE

Warehouse Associate | Fast-Paced Operational Environment

- Worked in fast-paced environment requiring accuracy, attention to detail, and adherence to safety protocols
- Performed sorting, inducting, picking, and staging following defined procedures
- Conducted quality control checks and collaborated with teams to meet operational targets
- Demonstrated ability to handle multiple priorities in structured, rule-driven environment

ACADEMIC PROJECTS

Home Security & IP Camera System (Raspberry Pi 5)

- Designed Raspberry Pi–based security system with real-time MJPEG video streaming over local network using Flask
- Implemented motion detection automation and automatic boot-time video recording
- Secured remote access using SSH key-based authentication and SCP for encrypted file transfers
- Applied network security best practices: WPA2 Wi-Fi, restricted permissions, isolated local storage
- Gained hands-on experience with HTTP streaming, packet flow concepts, and Linux system behavior

Cybersecurity & Network Analysis Labs

- Analyzed packet captures using Wireshark to identify suspicious activity and attack patterns
- Studied ARP spoofing, MITM attacks, and denial-of-service techniques
- Applied secure communication principles and performed traffic analysis to understand network behavior
- Learned TCP SYN flood attacks and basic mitigation concepts

IoT Security & Privacy Research

- Explored security challenges in smart home and IoT devices, including authentication weaknesses
- Studied cryptographic approaches (symmetric/asymmetric encryption, hashing, digital signatures) and privacy risks
- Evaluated real-world IoT security failures (Mirai botnet, SCADA attacks) and voice assistant vulnerabilities
- Learned privacy-preserving techniques for AI/LLM usage and blockchain fundamentals in IoT security

HourWork (Study Assistant Web Tool) | GitHub: github.com/kylehackett99/HourWork

- Collaborated to develop web-based study assistant using JavaScript, HTML, and CSS
- Practiced structured problem-solving, documentation, and version control in team environment

CYBERSECURITY TRAINING & CERTIFICATIONS

Immersive Labs – Cybersecurity Hands-On Training

- Introduction to Cryptography: Hands-on labs covering hashing, symmetric/asymmetric encryption, PKI, TLS
- Data Privacy: Practical labs in data privacy risks, secure system design, IoT security
- Achievement: 29 labs | 1,120 points | 6 CPE hours | Packet analysis and TLS handshake inspection using Wireshark

US Cyber Challenge – Cyber Quests

- Participated in multiple CTF seasons involving packet capture analysis, forensic artifacts, CVEs, and incident investigation
- Gained hands-on experience with network security analysis and threat detection concepts

LANGUAGES & AVAILABILITY

Languages: English, Hindi, Gujarati

Availability: Day or evening shifts | No overnight shifts | Hybrid or remote preferred

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Resume reflects all academic achievements, projects, and experience gained during Computer Science studies, focused on cybersecurity and security operations roles.