KATIE BARNES

Boston, MA

Objective

Motivated and adaptable cybersecurity and software engineering professional seeking opportunities to apply technical expertise, investigative skills, and a strong academic background to real-world challenges. Open to cybersecurity, software development, or emerging technology roles (remote or hybrid preferred but open to all opportunities).

Work Experience

E-Commerce Seller (TikTok Shop) | Self-Employed | July 2023 – Present | Remote/Boston, MA

• Manage all aspects of online sales and marketing through TikTok Shop.

• Create engaging video content, fulfill customer orders, and optimize listings for performance.

• Track analytics, maintain inventory, and develop promotional strategies to increase sales.

Education

Merrimack College – M.S., Computer Science & Software Engineering (2025)
Boston University – Graduate Certificate, Cybersecurity & Digital Forensics (2021)
University of Massachusetts Lowell – B.S., Criminal Justice (2020)

Technical Skills

Languages & Tools: Python, C++, JavaScript, HTML/CSS, REST, gRPC
Cybersecurity: Digital Forensics (Autopsy, FTK Imager, OSForensics), SIEM, Incident Response, Threat Analysis
Cloud & Platforms: Microsoft 365, Azure, Google Cloud APIs
Other: Git/GitHub, API integration, Profiling & Optimization (cProfile)

Projects

Digital Forensics Investigations – Boston University
• Performed forensic imaging and analysis using Autopsy, FTK Imager, and OSForensics.
• Investigated phishing, malware, and intrusion scenarios.

Google Maps Weather App – Merrimack College
• Built a web app integrating Google Maps API and real-time weather data using JavaScript, HTML/CSS, and REST APIs.

Algorithm Optimization (Python)
• Profiled and optimized a prime-finding program with cProfile to significantly reduce runtime.

Finite State Automata (C++)
• Implemented deterministic and non-deterministic finite automata to validate string inputs.

Achievements

• Earned M.S. in Computer Science & Software Engineering and Graduate Certificate in Cybersecurity & Digital Forensics.
• Completed AT&T Technology Academy 2025 (5G, Cloud, Network Troubleshooting, Leadership).
• Member of Phi Theta Kappa Honor Society; graduated with high honors.
• Recognized for leadership and reliability in management roles.