JACOB SMITH

Security-Focused Software Engineering Student

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Cybersecurity and Computer Science student with hands-on experience in offensive security techniques, building secure applications in real-world environments, and network fundamentals. Practical background includes penetration testing labs, web vulnerability exploitation, and building apps in Java / Spring Boot. Seeking internships in cybersecurity or security-focused engineering roles.

SKILLS

Languages: Python, Java, C, Bash, SQL, TypeScript

Operating Systems: Ubuntu Linux, Arch Linux, Kali Linux, Windows 10/11

Security & Networking: Nmap, Burp Suite, Hydra, smbclient, xfreerdp, port scanning, service enumeration, SQL injection, XSS, input validation & sanitization, JWT authentication, role-based access control, encryption, hashing & salting, least privilege, rate limiting, vulnerability analysis

Applications & Backend Development: Spring Boot, RESTful design, authentication/authorization workflows, immutable transaction/ledger design, Git

Platforms & Labs: Hack the Box, Custom Vulnerability Web App Lab

EDUCATION

University of North Georgia   Expected December 2027

B.S. Cybersecurity | Double Major in Computer Science

GPA: 3.54/4.0

Relevant Coursework: Data Networks, Applied Cybersecurity, Computer Organization & Architecture, Script Programming, Computer Ethics & Social Issues, Computer Science II

Denmark High School   Graduated May 2024

GPA: 3.8

Relevant Coursework: AP Computer Science Principles, AP Computer Science A

PROJECTS

NinjaBux - Multi-Tenant Reward Platform   Java, Spring Boot, TypeScript

- Designed and built a facility-scoped platform supporting multiple Code Ninjas locations and 20+ active student accounts
- Implemented JWT authentication and role-based access control, securing admin and student portal endpoints
- Built immutable ledger-based transaction system with a TypeScript SPA and integrated external REST API for student progression sync

Vulnerable Web App Security Lab   SQL, Python, Bash, Burp Suite, Hydra

- Configured and deployed a deliberately vulnerable web application environment to practice offensive security techniques
- Executed SQL injection and XSS attacks to identify injection vectors, craft payloads, and analyze application behavior under attack
- Used Burp Suite for request interception and Hydra for credential brute-force testing against login endpoints

Hack the Box - Starting Point   Nmap, smbclient, CLI tooling

- Completed Meow, Fawn, Redeemer, Dancing, and Appointment machines across beginner pentesting challenges
- Practiced Telnet enumeration, anonymous FTP exploitation, Redis unauthenticated access, and SMB share enumeration
- Exploited SQL injection vulnerability against a login form on Appointment, demonstrating real attack vs. defense understanding

WORK EXPERIENCE

Code Ninjas | June 2025 - Present

Coding Instructor

- Instruct students ages 5–14 in programming fundamentals using Microsoft MakeCode, JavaScript, C#, Unity, and GDScript
- Guide students through debugging and project-based problem solving, adapting instruction to individual skill levels
- Contributed to center achieving 87% trial-to-membership conversion rate (50 points above national average) through technical instruction and student engagement

Code Ninjas | August 2025 - January 2026

Curriculum & Software Developer

- Co-designed a new Unreal Engine learning pathway from scratch in collaboration with Code Ninjas Corporate
- Developed Purple and Black Belt curriculum focused on Godot game development
- Converted Unity C# projects to Godot GDScript, demonstrating cross-platform development skills
- Built NinjaBux reward platform using Java/Spring Boot backend with a TypeScript single-page application

PROFESSIONAL DEVELOPMENT

OWASP Top 10 | CSRF Mechanics | SIEM Fundamentals | IDS vs Firewall | Incident Response Lifecycle | MITRE ATT&CK Framework | TLS/HTTPS Certificate Validation | CompTIA Security+