Sean Finch

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Available May - December 2025 | Local: Boston MA | Permanent: Southern California | Open to Relocation

Education

Northeastern University, Boston MA **|** Khoury College of Computer Sciences   September 2023 – Present
Candidate for a Bachelor of Science in Cybersecurity, Minor in Music   Expected Graduation May 2027

Relevant Coursework: Systems Security, Computer Systems, Network Fundamentals, Object-Oriented Design, Algorithms and Data, Discrete Structures, Foundations of Cybersecurity, Fundamentals of Computer Science 1 & 2

Activities: Northeastern Electric Racing, CTF Club, OASIS, Northeastern University Choral Society (Vice President Spring 2025), Alpha Phi Omega, Cheese Club, Tabletop Roleplaying Society, Huskies Outdoors Club

Technical Skills

Operating Systems/Software: Tenable, Qualys, Elastic, Git, Proxmox, Ubuntu, TrueNAS SCALE, Tailscale, Caddy, Docker, Wireshark

Cybersecurity: SIEM, Incident Response, Vulnerability Assessment, VPN, System Administration, Virtualization, Threat Intelligence, Identity and Access Management (IAM), Cryptography, Symmetric and Asymmetric Encryption, Penetration Testing, Code Injection

Languages: Java, Kotlin, TypeScript, JavaScript, HTML, CSS, Python, C++, C, x86 Assembly, SQL

Libraries/Frameworks: JUnit, React.js, Node.js, Express.js, Tailwind, Prisma, Swing

Experience

Northeastern University
Mechanical and Industrial Engineering IT Support, Boston MA   September 2024 – Present
- Administered devices for the Mechanical and Industrial Engineering Department, enabling optimal performance
- Configured and maintained software on departmental devices, enhancing reliability and minimizing disruptions

Eco-Representative at Reuse Depot, Oakland CA   January 2024 – April 2024
- Enhanced product tracking system in Excel with comprehensive formulas, ensuring accurate sales tracking
- Implemented a new system for efficient product sorting and stocking, reducing retrieval times and increasing customer flow

CENIC
Cybersecurity Intern, La Mirada CA   May 2024 – August 2024
- Audited security scans for vulnerabilities within CENIC, assigning tickets and improving overall system and device security
- Documented security processes and software usage in Confluence, enhancing team collaboration and compliance
- Captured and verified detailed DDoS metrics on the CalREN Network, bolstering threat detection and response
- Gathered KPI metrics on the effectiveness of initiatives, demonstrating improvements in response times and overall posture

AFA CyberPatriot
Team Commander, Fullerton CA   January 2020 – January 2023
- Lead my team to secure intentionally flawed Windows and Linux virtual machines by resolving vulnerabilities in the system's security and user access policies, deciphering cryptographic codes, and ensuring critical services are enabled
- Retained existing and recruited new members, improving team cohesion and doubling the size of the team
- Developed a training curriculum to address gaps in knowledge and inefficiencies, improving performance by 40%
- Guided team to achieve higher placements, culminating in being California's top placed AJROTC team in 2021 and 2022

Projects

Storefront Website | GitHub | Website | *React.js, Tailwind, TypeScript*   November 2024 – Present
- Implemented a responsive website to effectively showcase baked goods, allowing accessibility across mobile and desktop devices
- Integrated a robust checkout system that interfaces with Venmo on desktop to autofill the price and items purchased

ThreeTrios | *Java, JUnit, Swing*   October 2024 – December 2024
- Programmed a strategic card game using object-oriented principles to enhance code readability and reusability
- Designed a modular MVC architecture with encapsulation, guaranteeing scalability and simplifying feature integration
- Created comprehensive tests utilizing test-driven development to validate game logic and allowing robust, error-free gameplay

Personal Website | GitHub | Website | *React.js, Tailwind, TypeScript*   March 2024 – Present
- Created a unique website to showcase professional skills, projects, and hobbies, developing a personal brand
- Utilized modern web development technologies like Tailwind and TypeScript to support better code organization and readability

Homelab Infrastructure | *Proxmox, Docker, CasaOS, Caddy*   June 2022 – Present
- Utilized Proxmox Hypervisor with CasaOS and Docker to efficiently manage backups of personal records, photos, and videos
- Reverse proxied the dashboard with Caddy and Tailscale to enable secure remote access over TLS on my own domain
- Actively explore various platforms to improve system performance, scalability, and future-proof home infrastructure

Interests

Biking, Hiking, Photography, Backpacking, Swimming, Gaming, Singing, Romanian Culture