Kinsey C. Bellerose

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github.com/cielbellerose | linkedin.com/in/kinsey-bellerose | Availability: January - August 2026

EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA — Sept. 2023 – Present

Bachelor of Science in Computer Science with Systems Concentration — Expected May 2027

Master of Science in Computer Science through the PlusOne Program — Expected May 2028

GPA: 3.6/4.0, Dean's List, Study Abroad in London (Spring 2024)

Relevant Coursework: Object-Oriented Design, Algorithms, Programming in C++, Computer Systems, Web Development, Foundations of Cybersecurity, Technology and Human Values, Theory of Computation, Foundations of Data Science

EXPERIENCE

Tech Lead and Software Web Developer, **Northeastern Electric Racing**, Boston, MA — Nov. 2024 - Present

- Lead a team of developers in the continuous development of Finishline, a full-stack project management dashboard built with React, TypeScript, and Prisma to centralize project tracking and streamline design reviews for 400+ users.
- Maintain code quality through code reviews and instilling software best practices for responsive React interfaces and scalable backend services, ensuring quality via Vitest suites and Postman API validations.
- Developed features for an interactive CAD part review dashboard, enabling engineers to upload designs, request changes, and annotate feedback, significantly shortening feedback cycles for critical components.
- Drive development of a rules management system, featuring a document parser to break down 100+ page FSAE/FHE rulebooks into trackable, distributable tasks, ensuring 100% competition compliance.

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, C++, CSS
Web and Backend: React, Next.js, Node.js, Express.js
Tools and Data: Git, PySide6, Prisma, PostgreSQL, REST APIs

PROJECT EXPERIENCE

Developer, **Network Security Port Scanner,** *Tech. Stack: Python, PySide6* — June 2025 – Aug. 2025

- Engineered a full-stack desktop application for TCP port scanning, implementing the GUI with PySide6 (Qt) to provide real-time visualization and a modern interface, reducing analysis time compared to traditional CLI tools.
- Architected a multithreaded scanning engine using Python's socket library, implementing configurable timeouts and robust error handling to accurately identify open ports on target hosts and improve scan efficiency.
- Designed a modern and intuitive UI/UX with a sortable results table, an animated donut progress bar for live status monitoring, and a detailed summary panel, greatly enhancing usability for security diagnostics.

Web Developer, **Portfolio Website**, *Tech. Stack: TypeScript, NextJS, Vercel, React* — May 2025 – Aug. 2025

- Designed and implemented a responsive portfolio website, architecting a dynamic layout system by utilizing CSS Grid and Flexbox to adapt between a three-column desktop view and a mobile-optimized single column.
- Engineered custom interactive UI components featuring smooth transition effects and a cohesive theme system managed through CSS variables, ensuring visual consistency and enhancing user experience.
- Developed on React and Next.js architecture to promote component reusability and simplify future expansions.

Developer, **FUSE Read-Only File System**, *Tech. Stack: C, Docker* — March 2025 – April 2025

- Engineered a Unix-style read-only file system for Computer Systems course, implementing directory hierarchy traversal, metadata retrieval, block-based storage with 4KB blocks, and file reading operations through FUSE framework.
- Containerized the testing environment utilizing Docker to overcome macOS/Linux FUSE implementation differences.

CERTIFICATIONS AND ACHIEVEMENTS

DoD Cyber Sentinel Challenge — June 2025

- Competed as a solo participant in a Capture-the-Flag (CTF) competition hosted by Correlation One. Ranked in the top 11% out of 2156 cybersecurity professionals and students by solving challenges in a simulated SOC environment.
- Applied skills in web security, reconnaissance, OSINT, reverse engineering, and network traffic analysis.

GIAC Certification of Foundational Cybersecurity Technologies — Sept. 2022

- Mastered essential foundations in virtualization, cryptography, cloud computing models, servers, and Linux architecture.