

Erin Hall

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Summary

Full-stack software engineer focused on building user-centered, sustainable web applications.

Experience

Intermediate Software Systems Engineer

McLean, VA

The MITRE Corporation

May 2024 – Present

- Lead frontend developer for a React-based HPC analytics dashboard, driving design decisions, collaboratively planning and implementing new features, and improving usability through user feedback
- Advancing tools, websites, and libraries across the ATT&CK ecosystem, collaborating on enhancements to reduce technical debt and support future growth and sustainability
- Coordinating HPC engagement for 900+ users by conducting surveys, organizing monthly informational sessions and advanced trainings, and developing an HPC learning path to strengthen organizational expertise
- Department intern coordinator, overseeing hiring, onboarding, mentorship, and performance evaluations
- Delivered reports and briefings to advise a sponsor on HPC cluster setup and operational best practices

Associate Software Systems Engineer

McLean, VA

The MITRE Corporation

January 2023 – May 2024

- Delivered full-stack upgrades to a HPC cluster analytics dashboard, improving sustainability, performance, and user experience
- Developed and maintained tools, websites, and libraries across the ATT&CK ecosystem to advance threat-informed defense and understanding of adversary tactics and techniques
- Built and maintained full-stack web applications for diverse internal tools and external-facing platforms

Software Engineer Intern

McLean, VA

The MITRE Corporation

June 2020 – January 2023

- Maintained and designed interactive UI features in React and Python for a web-based dashboard to virtually monitor High Performance Computing (HPC) cluster performance and usage statistics
- Provided updates and maintenance in AngularJS for a company-hosted platform for concept demonstration and prototyping early web applications
- Prototyped a guided interview for eliciting attorney misconduct in Python using Docassemble

Education

Virginia Tech

August 2021 – August 2023

M.S. in Computer Science

- Thesis: A User-Centered Design Approach to Evaluating the Usability of Automated Essay Scoring Systems

B.S. in Computer Science

August 2018 – May 2021

- Magna cum laude, 3.61 GPA, Dean's List (all semesters); minors in Science, Technology & Law and Math

Skills

Frontend: React, JavaScript, TypeScript, AngularJS, HTML, CSS, Vue

Backend: Python, Django, REST APIs, MySQL, Java, C

Development Tools: Docker, GitLab CI/CD, Git, Vite, Jest, React Testing Library

Other: High-Performance Computing, Survey Analysis, Usability Testing, User Research, AI Usability, Figma

Certifications

Data Parallelism: How to Train Deep Learning Models on Multiple GPUs, NVIDIA

July 2025

Clearances

DoD Secret, IRS Moderate (MBI)

Professional Memberships

Society of Women Engineers (SWE), Spring 2023 - Present

Publications

Exploring Explainability and Transparency in Automated Essay Scoring Systems: A User-Centered Evaluation June 2024

10.1007/978-3-031-61691-4_18 [↗](#)

Identifying Usability Challenges in AI-Based Essay Grading Tools June 2023

10.1007/978-3-031-36336-8_104 [↗](#)

Conference Presentations

International Conference on Human-Computer Interaction (HCII), July 2024
Washington, D.C. — Paper Presenter

AIED 2023, June 2023
Virtual — Poster Presenter