

HAMMAD RASHEED

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EDUCATION

Bachelor of Computer Science, University of Illinois at Urbana-Champaign Expected 2025
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Computer Architecture **GPA:** 3.96/4.00
Systems Programming, Database Systems, Algorithms & Models of Comp

EXPERIENCE

Network Automation Intern Jun 2024 - Aug 2024
EBSCO Industries Inc. *Ipswich, MA*

- Developed Terraform scripts to extract and manage AWS account information across the organization.
- Created and maintained a searchable, filterable table in Confluence, populated with AWS account data.
- Automated Terraform deployment using GitHub Actions, ensuring continuous updates to the Confluence table and managing Terraform state files in S3.
- Deployed and managed various AWS services, including VPCs and EC2 instances, to support infrastructure needs.
- Implemented SAFe principles to enhance deployment efficiency and optimize time management.

Software Development Intern Jun 2023 - Aug 2023
Fermilab, Superconducting Quantum Materials and Systems Center *Batavia, IL*

- Implemented websocket communication with experimental equipment. Specifically, a Bluefors Control Unit that monitors various points of data on a dilution refrigerator.
- Constructed a back-end program in *Python* that operated the *websockets* library to access the data streamed by the Bluefors Control Unit via API calls.
- Established a web page that displays real-time data of multiple concurrent dilution refrigerators. The page was created using *Next.js*, *Node.js*, and *React*.
- Collaborated with quantum physicists and software developers to realize different applications of the data-streaming web page.

SKILLS

Technical Skills C, Python, Terraform, TypeScript, React, Next.js, LaTeX, HTML/CSS, SQL, Assembly
Development Tools VS Code, Git Bash, VIM, Nano, PyCharm, Ubuntu Linux, VMWare, Flask, Conda

PROJECTS

HackIllinois John Deere Autonomous Litter Detecting & Mapping Rover *UIUC*

- Assembled the rover using servo motors, a camera, ultrasonic sensors, and other physical components.
- Leveraged sensor data in unison with the EfficientDet Lite2 model to detect, identify, and map pieces of debris that the rover encountered.

hammadr.com *Personal*

- Personal website to host my resume, projects, and contact information built with Next.js, Tailwind CSS, Upstash, Contentlayer and deployed through Vercel.

ACHIEVEMENTS & HONORS

- **UIUC:** James Scholar, Engineering Pathways Merit Scholarship, Dean's List, HackIllinois Hack Knights Finalist