

# NORAH HAQUE

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## EDUCATION

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*University of Minnesota–Twin Cities, College of Science and Engineering*

### Bachelor of Science in Computer Science & Marketing

Minneapolis, MN

Sep 2024 - Dec 2026

- **GPA:** 4.0
- **Coursework:** Algorithms and Data Structures, Machine Architecture, Computational Linear Algebra, Discrete Structures, Probability and Statistics, Applied Machine Learning, Operating Systems, Programming Principles, Ethics

## TECHNICAL SKILLS

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- **Languages:** Python, Java, JavaScript, TypeScript, C/C++, HTML, CSS, SQL, Bash
- **Frontend / Frameworks:** React, Next.js, React Native, Tailwind CSS, Framer Motion
- **Backend / APIs:** Node.js, Express, FastAPI, APIs, Firebase, PostgreSQL, Database Schema Design
- **Data Science:** PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- **Design / Prototyping:** Figma, Canva, Wireframing, UI/UX Design Principles
- **DevOps / Tools :** Git, GitHub, Docker, Linux, Conda, GitHub Actions, Excel

## EXPERIENCE

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*Data Science and AI Hub (DSI)*

### Machine Learning Teaching Assistant

May 2025 - Aug 2025

- Supported PhD-led instruction for 90+ high school students using PyTorch, TensorFlow, and scikit-learn to demonstrate deep neural networks, CNNs, generative models, transformers, and reinforcement learning
- Debugged Python and supported student labs using NumPy, Pandas, Matplotlib, Seaborn, and other ML/data libraries

*TURBO (Telescope Ultra-Resolution Binary Observatory)*

### Undergraduate Research Assistant

Oct 2024 - Present

- Develop Python ETL pipelines with Pandas + SQLAlchemy to load scientific telescope data into PostgreSQL while debugging and optimizing data workflows
- Use SkyPortal API to make data accessible and manage collaborative code development with Git

## PROJECTS

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### Muakhah

Sep 2025 - Present

- Building a full-stack crowdfunding platform supporting war-torn communities with an international team of 8 developers
- Implementing campaign and beneficiary API routes, designing database schemas, and managing multi-environment migrations using Next.js, Tailwind CSS, Neon Postgres, and Drizzle ORM with JSON-driven UI components
- Improving reliability through Jest + React Testing Library and supporting GitHub Actions CI/CD pipelines for dev and prod

### SMIC Mobile App – In Development

Oct 2025 - Present

- Leading full-stack development of a community app for 700+ users, streamlining access to resources and announcements
- Driving feature planning, user feedback collection, and iterative updates to enhance usability and overall UI/UX design
- Building with React Native, Expo, and TypeScript; integrating Firebase Authentication, Firestore, and CI/CD pipelines

### ACM-W Chapter Website

Jun 2025

- Developed and deployed a Next.js and TypeScript website, improving accessibility and digital presence for 200+ members.
- Managed project lifecycle from requirements gathering to launch, coordinating with leadership to meet branding goals

## LEADERSHIP

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*College of Science and Engineering (CSE) Student Board*

### DEI Director

May 2025 - Present

- Lead 4+ annual DEI events and initiatives on campus, often in partnership with other committee leaders, deans, and faculty
- Founded *STEM for All*, a mentorship program connecting UMN undergrads with underserved high schools in the cities
- Launched a resource closet in CSE providing health products, school supplies, snacks, professional development materials, toiletries and other vital resources to support student wellbeing

*Association for Computing Machinery - Women (ACM-W)*

### Technical Lead

Jan 2025 - Present

- Lead and maintain technical rebuild of organization website, improving maintainability and accessibility for 200+ members
- Support 10+ annual events and technical workshops aimed at uplifting gender minorities in tech