

# Mehboob Hussain

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## Summary

Frontend-focused software developer with experience delivering production web applications for real organizations. Background in React, API integration, QA testing, and UI/UX improvement, with a proven ability to improve reliability, performance, and user experience. Strong communicator with leadership experience coordinating across teams and stakeholders.

## Education

### University of Denver

- Bachelor of Science in Computer Science
- Minor in Mathematics
- Minor in Middle Eastern Studies

Expected Graduation: 2026

## Technical Skills

- **Languages:** Python, Java, C++, C, JavaScript, TypeScript, SQL, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, Flask, Streamlit
- **Cloud & DevOps:** AWS (Lambda, API Gateway, CloudWatch), Git, Linux, REST APIs
- **Tools & Platforms:** GitHub, VS Code, Postman, Docker, Firebase, Vercel, Netlify, Figma
- **Databases:** PostgreSQL, MongoDB
- **Product & Leadership Skills:** Product Strategy, UX Research, Cross-Functional Leadership, Agile Execution, Stakeholder Management
- **UI/UX:** Responsive Design, Wireframing, Accessibility, Component-Based Design
- **Quality Assurance & Testing:** Manual Testing, Regression Testing, Bug Reporting, Test Case Creation, API Testing (Postman), Chrome DevTools
- **ML/AI:** Sentiment Analysis, GPT-3.5 (OpenAI API)

## Relevant Experience

### Freelance Frontend Developer – Lady Fatima Center | November 2025 - Present

- Owned frontend and QA for a production React site, improving cross-device reliability through 20+ UI/UX and compatibility tests.
- Integrated and validated external APIs (Aladhan API, data pipelines), reducing data-load and fetch errors by ~30% via improved state handling.
- Debugged and optimized cross-browser behavior, reducing inconsistencies by ~25% through systematic troubleshooting.

### Software Developer Intern – MedGeo Ventures | Summer 2025

- Collaborated with engineers, PMs, and designers to implement and ship web features, translating product requirements into frontend solutions.
- Improved platform reliability by ~35% through targeted testing, bug resolution, and data validation across frontend systems.
- Built and optimized user-facing features using React and REST APIs, contributing to ~30% faster load times and improved user interaction flow.

### Founder & Operations Manager - A&M Premier Movers | 05/2022 - 10/2023

- Managed 20+ client projects, overseeing scheduling, routing, logistics, and on-site execution to ensure 100% on-time job completion.
- Increased operational efficiency by streamlining digital workflows (quotes, invoices, job tracking), reducing administrative time by 40%.
- Led and trained a 3–5 person team during high-demand periods, resolving real-time issues and maintaining a 98% satisfaction rate.

### Teaching Assistant | Spring 2024

- Supported students with Java and Python coursework, clarifying OOP principles and algorithm design.
- Led one-on-one sessions to improve understanding of debugging and problem-solving techniques.
- Improved student performance through structured guidance and one-on-one academic support.

### Program Coordinator - Al-Mahdi Youth Organization | 2021 - 2025

- Coordinated 20+ large-scale community programs, managing logistics, scheduling, volunteers, and execution end-to-end.
- Enhanced event organization by developing agendas, documentation, and follow-up systems that improved coordination across 10+ stakeholders.
- Led volunteer teams to deliver safe, structured, high-quality events while improving operational efficiency and participation rates.

### Tutor | 2023-2024

- Provided individualized tutoring in Data Structures, Algorithms, and Object-Oriented Programming, simplifying complex topics into easy lessons.
- Led one-on-one and group sessions to enhance problem-solving strategies and coding fundamentals.
- Helped students strengthen debugging skills and build confidence through structured, example-driven guidance.

## Projects

### Guided Text Reader – User-Facing Web Application (React, JavaScript)

- Designed and launched a user-facing reading experience for structured text recitation, prioritizing focus, clarity, and ease of use for daily engagement.
- Translated user needs into interaction design decisions by organizing long-form content into clear sections with predictable repetition flows and progress cues.
- Created a calm, distraction-free interface with accessible typography and visual hierarchy to support sustained attention and reduce cognitive load.

### Embedded Systems Developer - Independent Project | Spring 2025

- Developed an Arduino-based tripwire system to detect motion and control door access automatically.
- Implemented a JSON-based serial protocol for configuring thresholds, status reporting, and error handling.
- Integrated real-time response logic with modular hardware-software components for reliability and expansion.

### PyShell: Custom Python-Based Terminal Emulator

- Built a terminal emulator that replicates core Unix commands within a custom file system using Python.
- Implemented a tree-based data structure for managing directories and supporting recursive navigation.
- Applied OOP principles to handle commands, errors, and file operations in a modular, testable codebase.

### Thani - Mobile Application for Student Networking (DU Hackathon) | Spring 2025

- Tested mobile features for navigation, real-time updates, and cross-device performance during development.
- Logged UI inconsistencies and functional bugs to improve overall usability and demo stability.
- Validated final build quality leading to a top-3 placement among multiple university teams.