

Muhammad Zafar

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Summary — I'm a passionate Full Stack Developer with a strong foundation in frontend, backend, and MERN technologies. I focus on creating seamless user experiences and robust server-side solutions. My goal is to continue developing innovative applications that drive user engagement and solve real-world problems.

Skills

- **Frontend:** HTML, CSS, JavaScript, Next.js, React.js, TypeScript
- **Backend:** Django, Express, Node.js
- **Database:** MongoDB, PostgreSQL, Firebase
- **Other:** C, C++, Python, Verilog HDL, LaTeX
- **Focus:** Collaborative applications, AI integration, performance optimization

Experience

Headstarter AI

July 2024 – September 2024

Software Engineering Fellow

- Focused on upskilling in software engineering through hands-on project development and advanced tool usage
- Built a collaborative Notion clone using Next.js, Cloudflare Workers, OpenAI APIs, and LiveBlocks API to support real-time, AI-enhanced text editing and collaborative features
- Integrated AI-driven functionalities for content generation and language translation, enhancing user experience and automation
- Collaborated with a team of fellows to incorporate innovative solutions and optimized project structure for scalability and performance
- Participated in weekly progress reviews and feedback sessions to refine skills and deliver high-impact solutions

Education

Habib University (2023-2027)

Bachelor of Computer Engineering (100% merit based scholarship)

CGPA : 3.6

Government Dehli College (2021-2022)

Intermediate in Pre-Engineering)

Grade : 88.2% (A+)

Trueman School System

Matric in Biology

Grade : 97.29% (A+)

Projects

AI Note-Taking App

- Built an intelligent note-taking application using Next.js, Cloudflare Workers, and OpenAI APIs
- Integrated AI-driven functionalities to enhance note generation and summarization, providing users with efficient content management
- Designed with a focus on real-time collaboration and responsiveness, supporting dynamic user interactions
- Check out the project : 🌐 [notetaker](#)

Employee Management System with B-Trees

- A comprehensive employee management system in Python, utilizing B-trees for optimized data storage and retrieval
- Implemented CRUD operations for managing employee records, supporting efficient searches and updates
- Focused on data structure efficiency, ensuring scalability and high performance
- Check out the project : 🌐 [EMS_btrees](#)

Fruit Hunter (FPGA Project)

- Created an interactive Fruit Hunter game on FPGA Basys-3, exploring digital logic and hardware programming
- Implemented game mechanics using Verilog HDL, including score tracking and gameplay logic
- Designed user controls and visual elements, creating an engaging experience on FPGA hardware
- Check out the project : 🌐 [fruit_hunter](#)