

**Muhammad Subhan**  
**Software Engineer | Full Stack developer**  
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## **EDUCATION**

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### **University Of Education**

*B.S. in Computer Science*

**Township Lahore**

**Sep 2021 - May 2025**

- o **Concentrations:** Software Development & AI
- o **GPA:** 2.9/4.00
- o **Related Coursework:** Data Structures & Algorithms, Objects & Design, Programming, Artificial Intelligence, Object-Oriented Programming

## **EXPERIENCE**

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### **Headstarter AI**

*Software Development Engineering Fellowship*

**Remote**

**July 2024 - sep 20**

- Built and deployed 5 AI-powered projects in 5 weeks using React.js, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and implementing CI/CD for iterative deployment.
- Collaborated in a team of 3 to develop an interactive customer support agent using Next.js, integrating a custom Retrieval-Augmented Generation (RAG) pipeline with OpenAI and Pinecone, delivering real-time responses based on a company's knowledge base.
- Worked with 3 Fellows to build and deploy a SaaS product that dynamically generates flashcards using the Llama 3.1 LLM via the Groq API, with a paywall and custom pricing plans powered by the Stripe API.
- Developed a web scraper to extract data from Rate My Professor, upserting it to a Pinecone index, and integrated it with a RAG pipeline using LangChain and OpenAI GPT-4 for real-time query responses.
- Scaled each web application to over 200 users, continuously optimizing performance and incorporating user feedback for enhanced user experience.
- Focused on frontend development, gaining proficiency in Next.js and TypeScript, while also expanding backend skills through API integration and real-time data processing.
- Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon, and venture-backed startups, gaining insights into cutting-edge technologies and industry practices.

### **HiSkyTech Solutions**

*Front End Developement Intern*

**Remote**

**Aug 29 - Sept 30**

- Developed responsive and dynamic user interfaces using HTML, CSS, JavaScript, and React.
- Collaborated with backend developers to integrate APIs and ensure seamless user experience.
- Optimized website performance and accessibility, improving page load times by 20%.
- Worked closely with the design team to implement pixel-perfect UI/UX components.
- Gained hands-on experience in debugging, code reviews, and Agile development processes.

## **PERSONAL PROJECTS**

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### **Pantry Tracker Management**

**Technologies:** Next.js, Firebase

- Developed a real-time pantry management application, allowing users to track, add, and update pantry items, using Firebase for data persistence and Next.js for a smooth user experience.
- Implemented responsive design to ensure usability on both desktop and mobile devices.

### **Team Member Allocation**

**Technologies:** React, CSS

- Developed a web tool for assigning team members to projects, improving collaboration by automating the allocation process.
- Reduced project management complexity by implementing drag-and-drop functionality for easier task assignment.

### **E-commerce Platform**

**Technologies:** React, Tailwind CSS, Node.js, MongoDB

- Built a modern, responsive e-commerce platform with React and Tailwind CSS.
- Implemented backend API integration for seamless data fetching and real-time updates.
- Designed and connected a MongoDB database for product and user management.

## **ACTIVITIES AND LEADERSHIP**

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### **Dev Weekends Community**

- Active member providing mentorship and technical training to students.
- Guided juniors in developing technical skills and personal growth.

## **SKILLS**

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- JavaScript, HTML/CSS, SQL, React.js, C++, C
- Git, Github, Linux
- MongoDB, Express, Node.JS

### **Achievement and Certification**

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- **Certificate of Completion:** Introduction to Career Skills in Software Development (LinkedIn)
- **Certificate:** UE IT Society Bootcamp
- **Certificate:** Completion of Object-Oriented Programming (OOP)
- Solved over **150+ LeetCode problems**, showcasing problem-solving and coding proficiency