

Ahsaan Ullah

Software Engineer Intern

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SUMMARY

A results-driven Software Engineer skilled in developing real-time communication systems using Socket.io, implementing JWT-based authentication, and optimized application performance through efficient database queries, caching strategies with redis caching, in-memory caching, browser level caching. Adept at building REST APIs, integrating payment gateways (Stripe, Google Pay, FastPay), and deploying applications on Vercel, Netlify, and Render with CI/CD best practices.

Experienced with **React.memo** to prevent unnecessary re-renders. **Lazy Loading & Code Splitting** using `React.lazy()` and `Suspense`, **Dynamic Imports** to reduce bundle size, **Virtualized Lists** using `react-window` or `react-virtualized`, **Optimized state management** with Redux Toolkit & Context API and **Image optimization** using Cloudinary and Next-gen formats.

WORK EXPERIENCE

Mern Stack Intern

Jun '25 — Sep '25

Infini Studio

Lahore, Pakistan (Remote)

I was responsible for transforming UI/UX designs into fully functional, responsive web applications using Tailwind CSS and Material UI. I ensured seamless dynamic data flow by building reusable data-fetching logic, normalizing API responses, managing global and local state with **React hooks**, and optimizing re-renders using **useMemo** and dependency-based updates.

My role included implementing secure payment gateways such as Stripe, FasyPay, and Google Pay, optimizing RESTful APIs, and managing application state using **useReducer** and **useState** for a seamless user experience. I also contributed to building and debugging features, and deploying production-ready applications on **Vercel, Netlify, and Render**.

- Integrated secure payment gateways (Stripe, PayPal) and implemented advanced form validations, cart systems, and admin features.
- Worked with various APIs including Cloudinary (image upload), Nodemailer (email), and Google Maps (location).

PROJECTS

E-SHOP – Multi-Vendor E-commerce Platform [Link](#)

- **Eshop MultiVendor E-Commerce Platform** is a scalable and interactive web application designed to connect clients, sellers, and administrators through dedicated dashboards, enabling seamless online shopping, vendor management, and real-time interaction for an enhanced marketplace experience.
- Developed using the **MERN stack (React.js, Node.js, Express.js, MongoDB)** and **Redux Toolkit** for efficient global state management, the platform integrates **Stripe** for secure online payments and **Socket.IO** for real-time communication between users.
- It features **role-based authentication** with separate modules for clients, sellers, and admins, allowing product browsing, dynamic filtering, and live search for a smooth shopping experience.
- The **admin dashboard** enables effective management of users, products, orders, and vendor operations. Built with a **modular architecture**, clean routing, optimized APIs, and reusable components, the system ensures scalability, maintainability, and future extensibility.

Prescripto – Full-stack MERN Application [Link](#)

- **Prescripto** is a comprehensive healthcare platform designed to connect patients, doctors, and administrators through dedicated dashboards, enabling seamless appointment scheduling, secure online payments, and efficient communication for a complete healthcare management experience.
- Developed using the **MERN stack (React.js, Node.js, Express.js, MongoDB)** with **Axios** for smooth API communication and **Stripe** for secure payment integration, the system ensures real-time updates and seamless data flow. It features **role-based authentication** for doctors, patients, and admins to maintain secure access and data integrity, along with appointment booking, payment processing, and a real-time notification system for booking and transaction updates.
- Built on a **modular and RESTful API architecture**, the platform prioritizes scalability, maintainability, and optimized backend workflows.

EDUCATION

Bachelors in Information Technology, University of Education, Township Lahore

Lahore, Pakistan

- Relevant Coursework: Data Structures and Algorithms, Operating Systems, DBMS, Web Engineering, Cloud Computing, Software Engineering

AWARDS AND CERTIFICATES

MLSA Alpha Ambassador

Microsoft

Recognized as a Microsoft Learn Student Ambassador

SWE Fellow

Headstarter AI Fellowship

Hackathon Runnerup

Organized by UEIT Society

SKILLS

Programming Languages JavaScript, C++, SQL

Frontend Development ReactJS, Redux, Tailwind CSS, Material UI, HTML5, CSS3, Next.js

Backend Development Node.js, Express.js, MongoDB, TypeScript

Version Control GitHub, Git lab, Git Bash, Git (Version Control System)

Others Postman, Firebase, Cloudinary, Stripe, Nodemailer, Axios, Redux, Socket.io, RESTful API, CI/CD, Supabase, GCP, AWS

COMMUNITY INVOLVEMENT

Co Lead, MLSA UE Chapter

Jan '24 — Dec '25

Mentor, Web Development Bootcamp by Dev Weekends