Zain Ul Abedin

Full Stack Engineer

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EDUCATION

Bachelor in Computer Science, University of Education (GPA: 3.5)

Present
Lahore

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming in C++, Networking

HONORS AND AWARDS

2nd Runner-Up (UE Code Quest)
Participated in coding competition with team; solved 4 out of 5 problems.

PROJECTS

Multi-Vendor-eCommerce-MERN-App, Practice Project Link   Apr '25 — Jun '25

- **Tech Stack:** MERN Stack, Tailwind CSS, MUI, Stripe, PayPal, Cloudinary, Docker, Jenkins, AWS EC2, Socket.io
  Designed and developed a scalable **Multi-Vendor E-commerce web application** using the **MERN stack**, enabling vendors to register, list products, and manage orders.
  Implemented **real-time chat** using **Socket.io**, enhancing communication between vendors and customers.
  Integrated **authentication and authorization** with **JWT** and **Clerk**, along with **email verification** via **NodeMailer**.
  Developed **payment processing systems** with **Stripe** and **PayPal**, and implemented complete **order tracking**.
  Built a **responsive UI** using **Tailwind CSS**, **Material UI**, and **Swiper.js**, supporting a mobile-first experience.
  Managed complex global state using **Redux Toolkit .**
  Deployed the application on **Vercel** and also one copy on **AWS EC2**, using **Docker** and **Jenkins** to set up a **CI/CD pipeline** for automated production deployments.

Mama Marketplace Link   Jan '25 — Feb '25

- **Tech Stack:** Node.js, Express.js, TypeScript, MongoDB, Redis, PayRex, Cloudinary
  Built a high-performance e-commerce platform with a **Node.js + Express.js backend** and **MongoDB .**
  Implemented **Redis caching** to enhance performance and reduce server response time.
  Integrated **PayRex** for secure and reliable online payment processing.
  Used **Cloudinary** to handle optimized and scalable image uploads, ensuring a smooth user experience.
  Developed the backend in **TypeScript** for improved code safety, maintainability, and developer productivity.

GDGoC UE Community Platform Link   Sep '24 — Oct '24

- **Tech Stack:** Next.js, Node.js, Express.js, MongoDB, Clerk, Firebase, Tailwind CSS
  Designed and developed a **community-driven platform** for students as part of the **Google Developer Group On Campus (GDGoC UE)** at the University of Education, Lahore.
  Built a fast, SEO-friendly frontend using **Next.js**, and a scalable backend using **Node.js** and **Express.js .**
  Implemented **secure user authentication** with **Clerk**, and integrated **Firebase** for smooth and reliable image uploads.
  Contributed as a full-stack developer to foster student collaboration, resource sharing, and community engagement through the platform.

UE Readers Club, Practice Project Link   Aug '24 — Sep '24

- **Tech Stack:** Next.js, Node.js, Express.js, MongoDB, Firebase
  Created an interactive **book discussion platform** with **real-time chat**, allowing users to engage in live conversations around books and topics.
  Built the frontend using **Next.js** for **SEO optimization** and **server-side rendering** to ensure fast performance.
  Integrated **Firebase** for secure and scalable **image storage**, enabling smooth media handling.
  Developed the backend with **Node.js**, **Express.js**, and **MongoDB**, ensuring scalable user management.

SKILLS

Web Development   Html/tailwindcss, JavaScript, React, Next.js, Express.js, React Native, Redux, Node.js, TypeScript
DevOps   Jenkins, Docker, CI/CD, Kubernetes, Nginx, Amazon ECS, Amazon ECR, Amazon S3, Amazon EC2
Database Management   MongoDB, SQL
Programming Skills   Problem-Solving, Leetcode 150+, DSA, OOP, Competitive Programming

VOLUNTEERING

As a Tech Lead at GDGoC-UE and Trainer at DevWeekends, I actively contribute to the tech community by organizing workshops, mentoring students and junior developers, and conducting many community sessions. I teach various technical topics aimed at helping students grow their skills and confidence. I am passionate about making technical education accessible and providing practical guidance on real-world projects and career development. Through these efforts, I aim to empower others, foster collaboration, and support continuous learning within the community.