Awais Zubair

Full Stack Engineer (MERN Stack)

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Career Profile

Passionate Full Stack Engineer with 2 years of professional experience specializing in the MERN stack. Adept at developing, testing, and maintaining web applications with a keen focus on user experience and performance. Currently in the final year of my Computer Science degree at Karachi Institute of Economics and Technology (KIET). Successfully led a significant final year project involving a Smart Door Lock System, showcasing my ability to manage and deliver complex projects.

Education

Bachelor of Science in Computer Science
Karachi Institute of Economics and Technology (KIET), Karachi

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Professional Experience

Full Stack Software Engineer
BrainMetrix, Karachi

- Developed and maintained web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Collaborated with cross-functional teams to define, design, and ship new features.
- Ensured the performance, quality, and responsiveness of applications.
- Conducted code reviews and provided mentorship to junior developers.
- Implemented robust security measures and optimized applications for maximum speed and scalability.

Associate Software Engineer
Strugbits, Karachi

- Developed and maintained dynamic web applications using Wix Studio and Velo by Wix (Wix JavaScript).
- Collaborated with designers and content teams to create custom solutions aligned with client requirements.
- Optimized site performance, responsiveness, and SEO across multiple projects.
- Conducted code reviews and guided junior developers in best practices for Wix-based development.

Projects

Smart Door Lock System
Final Year Project at KIET

- Led a team to develop a comprehensive Smart Door Lock System combining hardware and software for enhanced home security.
- **Technology Stack:** Node.js, Express.js, JWT, Nodemailer (Backend); React Native (Frontend); MongoDB (Database).
- **Hardware Components:** Arduino UNO, Servo Motor, LCD, Keypad, House Model.
- **Features:**
    - **Family Registration:** Admin can register family members, assign time-level access, and manage access rights. ○ **Security Features:** Keypad entry with alarm system for incorrect passwords.
      Alerts sent to family members after three incorrect attempts.
    - **Remote Access:** Doors can be unlocked globally via the mobile application.
- Designed and tested all backend APIs, ensuring robust security and seamless integration with the frontend application.

Skills

- **Frontend:** React.js, React Native
- **Backend:** Node.js, Express.js
- **Database:** MongoDB, SQL, ORM
- **Tools & Technologies:** JWT, Nodemailer, Git, Github,
- **Languages:** JavaScript, HTML, CSS
- **Other:** API Design, Security Protocols, Postman, Agile Methodologies

Contact

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