Usama Zahoor

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EDUCATION

University of Lahore   **Sargodha Campus**

B.S.. in Software Engineering   *Expected Graduation, July 2025*

- **Concentrations:** Full-Stack Web Development
- **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Networks, Database Systems, Operating Systems, Natural Language Processing, Programming Fundamentals, Software Engineering

Summary

Motivated and detail-oriented Software Engineering graduate with practical experience in full-stack web development using the MERN stack (MongoDB, Express.js, React, Node.js). Proficient in building responsive, scalable web applications and RESTful APIs. Solid understanding of Object-Oriented Programming, Data Structures, and core Software Engineering principles. Eager to contribute to real-world projects and continuously grow as a developer.

PROJECTS

ProPath AI   **FYP**

Team Lead

- Developed ProPath AI, a career counseling chatbot mobile app built with React Native and powered by a fine-tuned Mistral AI model
- Designed and implemented a Node.js + Express backend with RESTful APIs and MongoDB for user data and counseling session history
- Integrated Firebase Authentication and push notifications to ensure secure user access and real-time updates
- Enabled real-time communication using Socket.IO, allowing students to interact with the AI agent seamlessly
- Fine-tuned the AI model to deliver personalized career and scholarship guidance for Pakistani students based on user input and preferences

YouTube clone

Team Lead

- Developed a responsive **YouTube clone** using **React** and **YouTube Data API v3** with real-time video search and playback
- Implemented **dynamic routing** and component-based architecture for seamless navigation and maintainability
- Styled the UI with **pure CSS**, delivering a clean and user-friendly experience

SKILLS

Programming: JavaScript, HTML/CSS, SQL, Node.js, React.js, Express
Tools: VS Code, Git/GitHub, Pycharm, Bolt AI, Mistral AI