Muhammad Abrar

Software Engineer

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SUMMARY

Motivated Software Developer with experience in full-stack web and mobile development using the MERN stack, React Native, and Supabase. Developed systems for the Punjab Workers Welfare Board, including a school management platform (Academia Connect) and a digital letter management system (E-Letters). Proficient in both frontend and backend technologies, real-time communication, and user-focused design, with a strong interest in building responsive and efficient applications.

EDUCATION

COMSATS University Islamabad, Lahore Campus - *BS , Software Engineering - GPA: 3.66* **Sep 2021 — Jun 2025**

Superior Group of Colleges - *FSc, Pre-Engineering - GPA: 98%* **Sep 2019 — Jun 2021**

SKILLS

Frontend Technologies	:	Html, Css, JavaScript, React, React Native
Backend Technologies	:	Node, Express, Mongo, Supabase, MYSQL, PostgreSQL
Programming Languages	:	Python, My SQL, C++, Java, C
Version Control	:	Git
Design Tools	:	Figma
Other Tools	:	Visio, Project, Trello, Jira, postman

AWARDS

First Position at Final Year Project Evaluation, COMSATS University Islamabad , Lahore Campus **Jul 2025**

Secured 1st place at the FYP Exhibition at COMSATS University Lahore Campus for the project **Digital Governance Solution**, supervised by Mr. Muhammad Shahid Bhatti.

The project consisted of two modules:

• **E-Letters** – A digital letter management system for PWWF.

• **Academia Connect** – A school management system for 72+ schools under PWWF.

EXPERIENCE

Software Developer, Punjab Workers Welfare Board **Jul 2024 — Jun 2025**

- Collaborated with stakeholders to gather requirements and develop Academia Connect, a school management system featuring web portals (React.js) and a mobile app (React Native) for user management, attendance, performance tracking, and announcements across different schools.
- Designed and built E-Letters, a digital letter management system with serial-based tracking, approval workflows, and role-based visibility using React.js, Node.js, and MongoDB to streamline official correspondence.

PROJECTS

Academia Connect, Link

- Developed a school management system for Punjab Workers Welfare Board (PWWB) with web portals (React.js) for admins, schools, and teachers, and a mobile app (React Native) for students.
- Features include user management (school, students, teachers), class allocation, attendance tracking, performance reports, and announcements
- Built using React.js (frontend), Supabase (backend + DB), and React Native (mobile) for seamless data sync across platforms.
- Serves 72+ schools, 1,000+ teachers, and 20,000+ students, streamlining operations for the PWWB education program.

E-Letters

- Designed a digital letter management system for the Punjab Workers Welfare Board (PWWB) to streamline correspondence, ensuring transparency and operational efficiency.
- Features include letter tracking via serial numbers, sender/receiver management with dynamic updates, and visibility control to maintain privacy and relevance.
- Integrated approval chains for systematic processing and MongoDB for centralized letter storage and retrieval.
- Built using a React.js frontend and Node.js backend, providing a user-friendly web portal for creating, sending, receiving, and managing letters.

Chatting App

- Built a real-time chat application using the MERN stack with secure authentication, instant messaging via Socket.IO, and file uploads using Multer. Features include conversation creation, contact management, profile customization, and real-time message updates. Ensured a responsive UI with React and efficient backend with Node.js, Express, and MongoDB.

Portfolio, Link

- Developed a personal portfolio using HTML, CSS, and React, featuring sections like Home, Introduction, Skills, Projects, Experience, and Contact. Designed to showcase work and achievements with a clean, user-friendly interface.

Blogging

- Allows users to create, read, update, and delete blogs with secure user authentication. Non-logged-in users can only view blogs, while signed-in users can comment and post, enabling a personalized and interactive experience.