

Muhammad Ehsaan

Software Engineer

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EDUCATION

University of Engineering and Technology

Bachelors of Science in Computer Science

Lahore, Pakistan

Oct. 2020 – May 2024

WORK EXPERIENCE

Jr. Software Developer

[Ensemble Technologies](#)

June 2024 – Present

San Ramon, CA, United States (Remote)

- Contributed in developing Ensemble Studio, a low-code platform, by building new features and resolving issues in its React TypeScript codebase. Automated ES5 to ES6 script conversion using Babel to streamline development.
- Built an API-driven system for structured app artifact downloads and added an automated feature to fetch and integrate Figma assets into the Studio environment.
- Refactored the codebase of local app structure in the Flutter engine, enabling mobile apps to run offline with locally downloaded assets from Studio.
- Built custom Flutter-based widgets and actions for the Ensemble Studio platform, added Schema for IntelliSense support, and maintained its Markdown documentation.
- Collaborated with an international team and engaged directly with international clients to understand their requirements, manage communication, and ensure timely, high-quality delivery.

Software Engineer Trainee

[XEBEX](#)

May 2022 – Sept 2023

Lahore, PK

- Built multiple MERN-based web apps, including a Food Order Website, Real Estate Website, and E-commerce Store, ensuring seamless functionality and performance.
- Worked with Redux for state management, implemented complex routing, and integrated APIs using Axios for efficient data handling.
- Developed RESTful APIs with Express.js, incorporating JWT authentication, middleware, email services, and MongoDB integration.
- Built a React Native mobile app for the Real Estate platform, ensuring a smooth, responsive, and user-friendly experience.

Full Stack Web Developer Intern

[Cube Soft](#)

July 2021 – Sept 2021

Lahore, PK

- Developed a complete Web Portal for the Exam system for teachers and students
- Worked on an ASP.NET-based project on MVC Architecture.
- Developed all the REST APIs along with the front end of the application and its integration with APIs.
- Used SQL Server for database and Entity Framework for data Handling.

Final Year Project

Devsccaffold | [ReactJS](#), [ExpressJS](#), [MongoDB](#), [Axios](#), [Postman](#), [MUI](#), [Tailwind](#) ([Demo Video](#) | [GitHub](#))

- Built a no-code platform for creating React apps through an interactive UI, with JSON managing pages, components, and data.
- Developed a real-time page builder that converts intermediate JSON into renderable HTML, allowing users to add elements via button clicks in a hierarchical structure.
- Implemented a dynamic routing system that generates routes through button clicks.
- Created a code engine that converts JSON designs into a downloadable React app with Tailwind CSS.
- Designed a dashboard for managing, publishing, and sharing multiple apps.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++

Web Dev: HTML, CSS, JavaScript, ReactJS, Redux, Vue JS, NextJS, Tailwind

Developer Tools: Git, GitHub, VS Code, Postman, Visual Studio

Databases: SQL, PostgreSQL, MySQL, MongoDB

Backend: NodeJS, ExpressJS, Flask

PROJECTS

Dropit-Figma (npm package) | *NodeJS* ([Package Link](#) | [Github](#))

- Created DropIT, an NPM package that simplifies Figma API integration, enabling a seamless design-to-code workflow.
- Engineered a unified data extraction method to fetch pages, screens, styles, and images in a single API call.
- Integrated Figma Personal Access Token authentication, ensuring hassle-free API requests.
- Designed an intuitive API with straightforward setup and structured data conversion, making Figma-to-code transformation effortless.

Pinterest | *React, Tailwind CSS* ([link](#))

- Developed a Pinterest clone with a Masonry layout for dynamic image display, ensuring a visually appealing and responsive UI.
- Added Google Authentication with Firebase for easy and secure logins.
- Implemented search, add to favorites, comments, and pin downloads, enhancing user engagement and functionality.
- Created a listing page and a detailed pin view with recommended pins to keep users exploring relevant content.

CodeSum | *ReactJs, Axios, Tailwind, Gpt API* ([link](#))

- Built a code summarization tool with a ChatGPT-style interface that explains code in a clear and concise way.
- Used the GPT API to generate accurate summaries, helping developers quickly understand complex code.
- Designed a smooth and intuitive UI, making it easy to paste code and get instant explanations.

Memories | *ReactJS, ExpressJS, MongoDB, Axios, Postman, MUI* ([link](#))

- Built a Memories Sharing Web App using the MERN stack, where users can post, like, and comment on shared experiences.
- Implemented JWT-based authentication to ensure secure user access.
- Designed a clean and responsive UI with MUI, making it easy to browse and interact.
- Developed full CRUD functionality for posts, likes, and comments, ensuring a smooth user experience.

VOLUNTEER EXPERIENCE

Joint Secretary | [Software Square, UET Lahore](#)

Oct 2022 – May 2023

- Acted as a liaison between the sub-hierarchy and core body, ensuring smooth coordination and communication.
- Organized ITEC, a national-level tech event, overseeing planning, logistics, and execution.
- Managed teams and events, leading volunteers and ensuring efficient event operations.

Core Team Member | [GDSC, UET Lahore](#)

Sept 2021 – Aug 2022

- Hosted technical workshops and events, bringing developers together to learn and grow.
- Helped build a strong developer community by mentoring students in web and app development.
- Worked with the team to expand outreach and engagement, making GDSC more impactful.