Syed Zawwar Ahmed

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Full-stack software engineer with 4+ years of experience developing web and mobile applications. Skilled in JavaScript, TypeScript, Python, React, React Native, and Node.js. Focused on tackling technical challenges and delivering efficient solutions.

Experience

Full Stack Developer, SmythOS   *December 2024 – Present*

- Built enterprise observability system with OpenTelemetry and ClickHouse for real-time monitoring of AI agents.
- Working on product development, and enhancing open-source presence across multiple features and integrations.
- Built proof-of-concept mobile implementation running SmythOS agents on Android using React Native and Node.js Mobile.

Software Engineer, IOMechs   *May 2023 – November 2025*

- Delivered multiple web and mobile applications to production, serving thousands of users across healthcare, education, and business.
- Developed Estenarh, a Ministry of Health-approved counseling app offering medical and psychological services to thousands of users.
- Implemented dynamic chat, session scheduling, real-time consultant availability, and dark mode, improving user retention by 25%.
- Enhanced app performance by 50% using RTK Query for efficient caching and data handling.
- Implemented real-time communication with Socket.io and integrated Agora and Zoom for audio/video calls.
- Created CI/CD pipelines for Android/iOS builds using Bitbucket Pipelines, reducing build time from 1 hour to 15 minutes.
- Built AI Annotator Tool using Next.js, Prisma, PostgreSQL, NextAuth, and Konva for annotating handwriting samples to train AI models.
- Built Privacy Shield using Next.js, Firebase, FastAPI, Gemini, and OpenCV to redact PII from text and faces in documents.
- Built NowCut using Expo, React Query, NativeWind, Firebase, NestJS, TypeORM, and Postgres for booking barber appointments.

Web Intern, VentureDive   *June 2022 – February 2023*

- Led front-end development of the Health View application using React.js with TypeScript, Redux Toolkit, and Ant Design.
- Collaborated with cross-functional teams to create an intuitive UI, boosting project productivity monitoring by 25%.
- Improved front-end performance by 20%, reducing page load times and enhancing user experience.

Projects

SmythOS   Link | GitHub

Open-source contributions to AI agent framework including storage connectors and mobile implementation POC.

Estenarh Online Therapy App   Play Store

Licensed counseling mobile app built with React Native, serving thousands of users with medical and psychological services.

InkSync: Whiteboarding Web App   Link | GitHub

Collaborative whiteboard application with real-time drawing and writing using React, TypeScript, Socket.io, and Canvas API.

DevShare   Link | GitHub

AI-powered tool transforming notes into optimized social media posts using React, NestJS, Prisma, TanStack Query, and Google GenAI.

Advisor Schedule   Link | GitHub

Calendly-like scheduling application using Next.js, TypeScript, Prisma, NextAuth, and shadcn/ui for managing professional meetings.

Education

University of Karachi (DCS-UBIT), Computer Science   *February 2021 – December 2024*

CGPA: 3.5/4.0

Technologies

Languages: JavaScript, TypeScript, Python, C++, Java, HTML, CSS, SQL

Frontend: React.js, Next.js, React Native, Expo, Redux Toolkit, React Query, RTK Query, Context API, Zustand, Tailwind CSS, ShadCN

Backend: Node.js, Express.js, NestJS, FastAPI, Socket.io, AI Agents

Databases & ORMs: PostgreSQL, MongoDB, ClickHouse, Prisma, TypeORM

DevOps & Tools: Git, CI/CD, Bitbucket Pipelines, Firebase, AWS, n8n