Shahab Ali Hassan

shahabalihassan46@gmail.com | 🌐 **My Portfolio**

⬤ https://github.com/Shahab-Ali-E   in www.linkedin.com/in/shahab-ali-9626812b6

SUMMARY

I am a dedicated and self-taught Full Stack Developer with expertise in modern web and mobile application development. I bring a strong foundation in both frontend and backend technologies, including Next.js for web development, React Native for mobile apps, and FastAPI for backend services. I specialize in building scalable, high-performance applications, and delivering user-centric solutions.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python
- **Mobile Development:** Cross-platform applications using React Native Expo
- **Software Development:** Understanding of Object-Oriented Programming (OOP) principles.
- **Web Development:** Next.js, Tailwind CSS, HTML, CSS.
- **Backend Development:** FastAPI for RESTful API development.
- **State Management:** Zustand, Redux
- **Database Management:** PostgreSQL, Oracle
- **DevOps and CI/CD:** Jenkins, Docker, Git
- **Cloud Services:** AWS EC2, AWS S3

EDUCATION

- COMSATS University Islamabad Attock Campus   CGPA: 3.38
- Bachelor of Science, Software Engineering   Sep 2021 - July 2025

PROJECTS

- **AI Cull Share Eventize** – AI-powered platform for image sharing, event management, and automated photo culling.
  Tech: Next.js, FastAPI, PostgreSQL, Celery, AWS S3, Clerk, Zustand, VIT model.

- **Faith Sphere AI** – An AI-powered Islamic app that lets users generate quizzes, scan and translate Ayahs via OCR, find Quran and Hadith references, search nearby mosques, and view prayer timings with Hanafi/Shafi options.
  Tech: React Native Expo, FastAPI, Zustand, Aladhan API, Google Places API, Gemei Vision 2.0, Grook Cloud Lama4.

- **AirHelp Mobile App** – A flight compensation claims app with an 8-step guided process.
  Tech: React Native, Clerk, Expo Task Manager, FastAPI, Zustand.

- **Salah Tracker** – Prayer tracking app with mosque search and location-based reminders.
  Tech: React Native, Aladhan API, Google Places API, Zustand.

PROFESSIONAL EXPERINCE

- Designed secure and scalable storage solutions for image uploads and processing using **AWS S3**.

- **Fine-tuned google/vit-base-patch16-224-in21k** on a custom dataset, training two separate models: one for **closed-eye detection** and another for **blur image detection**. For duplicate image detection, implemented **ResNet50** with cosine similarity, ensuring high accuracy in AI-driven workflows.

- Integrated **Clerk** for authentication, implementing **webhook-based** user registration, updates, and deletions to sync data with the backend.

- Optimized **Celery** workers with **Postgres** for CPU-intensive image processing tasks, adding auto-retry mechanisms to ensure fault tolerance.

- Implemented **Server-Sent Events (SSE)** in FastAPI, utilizing **Microsoft SSE** in the frontend to provide real-time task updates for Celery-processed tasks.

- Delivered responsive and interactive mobile apps using **React Native**, achieving seamless cross-platform compatibility and exceptional user experiences.

- Implemented **multi-language support** in React Native applications using **i18n**, enhancing accessibility for diverse user groups.

- Utilized **Zustand** and **Redux** for efficient global state management in React Native applications.

- Developed scalable web applications using modern **Next.js (App Router),** implementing **Suspense** for efficient rendering and optimizing API calls with **unstable_cache** for caching. Utilized on-demand revalidation to keep data fresh while reducing redundant requests.

- Implemented a clean and minimalist UI design using **ShadCN/UI**, enhancing user experience with smooth animations powered by **GSAP** and **Framer Motion**.