

Shahab Ali Hassan

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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
- **Web Development:** Next.js, Tailwind CSS, 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, Jenkins (CI/CD).
- **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 EXPERIENCE

- Enhanced backend performance by 37% by implementing **asyncpg** for PostgreSQL database operations, reducing query execution time and improving scalability.
- Designed secure and scalable storage solutions for image uploads and processing using **AWS S3**, incorporating encryption and lifecycle policies.
- Fine-tuned **Google Vision Transformer (ViT)** for advanced blur detection, closed eye detection and **ResNet50** for duplicate image identification, enhancing the accuracy of AI-driven workflows.
- Integrated **Clerk** for authentication, implementing webhook-based user registration, updates, and deletions to sync data with the backend, enhancing.
- Optimized Celery workers with Redis for CPU-intensive image processing tasks, adding auto-retry mechanisms to ensure fault tolerance.
- Built CI/CD pipelines using Jenkins and Docker, automating testing and deployments across staging and production environments.
- Delivered responsive and interactive mobile apps using **React Native**, achieving seamless cross-platform compatibility and exceptional user experiences.
- Spearheaded the development of scalable web apps with **Next.js**, leveraging server-side rendering (SSR) and API routes for efficient API handling, enhancing security by keeping backend logic hidden from the client-side.