

Shahab Bukhari

Software Engineer

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About

As a seasoned Software Engineer with over 4 years of experience, I specialize in building scalable, high-performance **web systems** with a strong focus on **modular architecture**, system reliability, and clean developer experience. My technical expertise spans modern frameworks including **JavaScript**, **TypeScript**, **React**, **Next.js**, **Node.js**, **NestJS**, and **Python**-based frameworks such as **FastAPI** and **Flask**.

I bring full-stack proficiency with a strong emphasis on **backend architecture** designing **microservice** oriented systems, implementing robust APIs, and **optimizing database** and messaging workflows using **MongoDB**, **PostgreSQL**, **Redis**, and **event-driven** patterns. My frontend work emphasizes accessibility (WCAG), responsive UX, and interactive interfaces powered by **React Query**, **Zustand**, **Redux**, **GraphQL**, and **Framer Motion**.

I've led the integration of **GenAI** capabilities embedding LLMs into production-grade systems for tasks such as dynamic pricing suggestions, **recommendation system** and **semantic search**. These implementations leverage tools like LangChain, OpenAI API, and vector-based retrieval pipelines. Additionally, I've built and maintained CI/CD pipelines, containerized deployments, and **cloud-based infrastructure** to support continuous delivery and system scalability.

WORK EXPERIENCE

Software Engineer

Nov 2023 - Present

Pursue Today | Lahore, Pakistan

- **Full-Stack Development:** Leveraged **React**, **Next.js**, and other **MERN stack technologies** to build robust and scalable E-commerce platforms, delivering innovative solutions tailored to business goals.
- **Backend Systems Development:** Built and maintained efficient back-end systems using **Node.js**, **Express.js**, and **Nest.js**, ensuring smooth integration with databases and APIs.
- **Data Processing at Scale:** Developed efficient data pipelines using **Node.js**, **bull.js**, and **Redis** to scrape, process, and store millions of records, streamlining data workflows for large-scale projects.
- **Database Optimization:** Enhanced database performance by rewriting complex queries and optimizing schemas in **MongoDB** and **MSSQL**, significantly reducing query response times.
- **Automation and Workflow Optimization:** Automated critical business workflows through **cron jobs**, database integration, and scripts, improving efficiency in data fetching, processing, and email notifications.
- **Scripting and ETL Pipelines:** Created and managed **ETL pipelines** for efficient data transformation, ensuring accurate and timely delivery of processed data to stakeholders.

- **Problem Solving and Leadership:** Tackled complex technical challenges, provided innovative solutions, and guided team members in overcoming obstacles to achieve project milestones.
- **AI-Powered Price Suggestion Agent:** Integrated OpenAI-based agent to suggest competitive product pricing based on scraped competitor data and business constraints.
- **Semantic Search Integration:** Built intelligent semantic search capabilities for the web application using vector embeddings and a similarity search engine, enhancing product discoverability.

Software Engineer

Aug 2023 - Nov 2024

Sabbatical.com | Vienna, Austria (Remote)

Sabbatical is the one-stop shop for employers, corporate volunteers and nonprofit organisations for volunteering across borders.

- **Architected the Entire Platform:** Designed and developed the platform's architecture, including the admin panel, APIs, and frontend, from ideation to deployment.
- **Integrated Third-Party Services:** Seamlessly incorporated APIs like UniPlaces (accommodation), JoinSherpa (travel guidance), and others for insurance and transportation (trains, buses).
- **Implemented Payment Systems:** integrated secure payment gateways to handle transactions efficiently.
- **Cloud Deployment and Scaling:** Hosted the platform on AWS (EC2, S3) with Docker and CI/CD pipelines to ensure scalability and reliability.
- **Optimized Data Workflows:** Automated workflows using cron jobs, ensuring real-time updates for travel, accommodation, and insurance data.
- **User-Centric Design:** Delivered an intuitive, responsive, and WCAG-compliant UI using React and Material UI to enhance user experience.
- **Performance Optimization:** Optimized backend and database performance to reduce response times and enhance overall platform efficiency.
- **AI-Driven Matching:** Developed a volunteer-opportunity recommender system using embeddings + OpenAI to match candidates with relevant assignments.
- **Intelligent Travel Assistant:** Built a travel Q&A chatbot using OpenAI API and travel APIs (Sherpa, Uniplaces), handling multilingual prompts and answers.

Software Engineer

Jun 2021 - Nov 2023

Tecaudex | Lahore, Pakistan

Tecaudex is a tech startup specializing in IT consultancy, software design (UI/UX), development, deployment, and maintenance.

- **UI/UX Development:** Developed intuitive, responsive UI/UX for websites and admin panels using tools like Tailwind CSS, Material UI and Framer Motion, ensuring seamless user experiences while adhering to frontend development best practices.
- **Advanced React Development:** Utilized React, Redux, Zustand, and React Query to manage state and optimize data fetching for fast, responsive web applications.
- **Next.js Development:** Developed server-side rendered applications using Next.js, improving SEO and ensuring fast load times for high-performance websites.

- **Interactive Flow Design:** Leveraged **React Flow** to build interactive flow-based applications and visual data representations, enhancing user engagement and interface usability.
- **Automated Frontend Testing:** Integrated automated testing frameworks using **Jest** and **Cypress**.
- **Client Communication & Relationship Management:** Directly handled client **communication**, ensuring clear understanding of project requirements, timely updates, and prompt resolution of concerns.
- **Pre-Project Collaboration:** Participated in project kickoff meetings to understand requirements, define objectives, and strategize solutions tailored to client needs.

SKILLS

JavaScript | TypeScript | ES6 | Frontend Development | React | Redux | Zustand | Next.js | Tailwind | Material UI | React Query | React Flow | Framer Motion | Webpack | Jest | Cypress | Storybook | Accessibility (WCAG) | Backend Development | NodeJS | RESTful | GraphQL | Express.js | Nest.js | Socket.IO | Python | Pandas | FastAPI | Flask | Databases | MongoDB | PostgreSQL | MSSQL | Elasticsearch | Redis | Scripting | Cron Jobs | ETL pipeline | Linux | Logging | Docker | CI/CD | GitOps | GitHub Actions | Cloud | AWS (EC2, S3 & Amplify) | Automation | Project Management | Code reviews | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity | GenAI | OpenAI API | Prompt Engineering | LangChain | RAG | Vector Databases (Pinecone, FAISS) | LLM Integration | GPT-4