

Muhammad Abdullah

Software Engineer

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Profile

Full-stack software engineer with experience building scalable web platforms, AI automation systems, and cloud-based infrastructure. Proven ability to ship robust features using React, Next.js, Python, FastAPI, Django Rest Framework, and AWS in fast-paced startup environments.

Work Experience

Associate Software Engineer, Speridian Technologies

Lahore, Pakistan

Allied Bank Limited (ABL)

Created CRM solutions for branch banking operations and customer service workflows.

- Developed and maintained CRM modules for branch banking procedures, including Customer Profile 360, Service Requests, and Complaints Management.
- Built responsive frontend interfaces using React/TypeScript and Tailwind CSS for internal banking operations and customer support workflows.
- Developed secure backend APIs and business logic using Python and Django Rest Framework.
- Designed and optimized database structures and queries using PostgreSQL and SQLAlchemy.
- Implemented authentication, role-based access control, and workflow management for internal users.
- Collaborated with teams to streamline customer handling processes and improve operational efficiency across banking services.
- Containerized application services using Docker for consistent development and deployment environments.

Skills: Python | Django Rest Framework | React.js | Typescript | Tailwind CSS | Docker | PostgreSQL

stc (Saudi Telecom Company)

Partner Portal for Partner Onboarding & Management

- Contributed to the development of a partner portal designed for partners and allies of stc, streamlining onboarding and partner lifecycle management processes.
- Built and enhanced frontend modules for partner workflows, including onboarding, certifications, rebate management, and funds management.
- Developed backend services and business logic to support service requests, lead tracking, and opportunity management.
- Implemented secure role-based access control and workflow automation for different partner user types.
- Designed scalable APIs and optimized data handling for smooth partner interactions and internal operations.
- Collaborated with stakeholders to digitize and automate partner engagement processes, improving operational efficiency and transparency.

Skills: Next.js | Typescript | Django Rest Framework | API Development | TypeScript | Tailwind CSS | PostgreSQL | CI/ CD | Client Communication | Project Planning

Software Engineer, Arithmiks

Lahore, Pakistan

Deals and Offers

Affiliate Marketing & Trending Offers Application

- Independently designed and developed a full-stack deals and offers platform focused on publishing trending and hot affiliate marketing deals across multiple stores and categories.
- Built responsive and modern user interfaces for browsing, searching, and discovering curated offers and discount campaigns.
- Developed a comprehensive admin panel with full control over application workflows, including user management, store management, deals management, and platform administration.
- Implemented secure authentication and authorization systems, including OAuth 2.0 integrations with Google and Facebook login.
- Engineered scalable backend APIs and business logic to support affiliate deal publishing, moderation workflows, and content management.
- Designed and optimized database architecture for handling users, stores, deals, categories, and engagement data efficiently.
- Worked end-to-end on the complete product lifecycle, including frontend development, backend architecture, database design, authentication systems, deployment, and production maintenance.
- Solely owned and delivered the project as the only full-stack engineer responsible for development and technical implementation.

Skills: Next.js | Tailwind CSS | Redux | Django REST Framework | PostgreSQL | API Integrations | Git | GitHub Actions | CI/ CD | OAuth 2.0 | REST APIs

Expat Haven Hub

AI-Powered Relocation & Expat Assistance Platform

- Contributed to the development of an AI-powered platform designed to help expats relocate by providing personalized country recommendations, visa guidance, tax information, and relocation insights.
- Built an interactive expat assessment quiz with multiple dynamic questions and integrated LLM-based recommendation systems to generate personalized country matches, expat profiles, key traits, and expert relocation tips.
- Developed personalized news feed functionality tailored to users' reading habits, recommended countries, and expat preferences.
- Engineered modules for visa information, taxation details, country comparisons, monthly living cost estimation, and property-related insights across multiple countries.
- Built AI-powered Q&A video features that generate intelligent relocation-related answers and video-based content using OpenAI and Gemini LLM integrations.
- Developed scalable frontend applications using Next.js, Redux, Zod, and modern UI workflows for seamless user experiences.
- Implemented backend APIs and AI orchestration services using FastAPI and Python for recommendation systems, AI processing, and data aggregation.
- Worked on web scraping and structured data pipelines to collect and organize country-specific information, visa policies, taxes, and relocation datasets.
- Developed a comprehensive admin panel for user management, AI usage monitoring, LLM cost tracking, analytics dashboards, saved item management, and Q&A video generation workflows.
- Implemented secure authentication flows including OAuth-based Google Sign-In and user authorization systems.

Skills: Payload CMS | Python | FastAPI | OpenAI API | Gemini API | Redux | TypeScript | Web Scraping | OAuth 2.0

Education

Bachelors of Science in Computer Science, 2019 – 2023
University of Central Punjab (UCP) Lahore, Pakistan

Courses: Web Development | AI | Cloud Computing | Information Security | Information Retrieval

Intermediate in Computer Science (ICS), *Punjab Group of Colleges* 2017 – 2019
Lahore, Pakistan

Skills

Frontend: React.js | Next.js | TypeScript | Redux | Tailwind CSS | WebSockets

Backend: Python | FastAPI | Django REST Framework

Databases: MySQL | PostgreSQL | SQLAlchemy

DevOps & Cloud: Docker | AWS (EC2, S3, Lambda, Amplify) | GitHub Actions | CI/ CD | Nginx | Kafka | Elasticsearch

AI & Automation: OpenAI API | Gemini API | Gen AI | LangChain | RAG

Tools: Git | GitHub | Figma | Postman | Netlify | Trello | Notion