

Shahzaib

Full-Stack Developer | AI Engineer

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Professional Summary

Full-Stack Developer with 3+ years of professional experience and 4+ years of hands-on experience building scalable SaaS products, dashboards, APIs, and AI-powered workflows. Skilled in React, Next.js, Node.js, Express.js, Python, FastAPI, Strapi, PostgreSQL, MongoDB, AWS, Docker, and CI/CD. Hands-on experience with OpenAI, Gemini, Whisper, ElevenLabs, AI agents, RAG pipelines, embeddings, Pinecone/pgvector, semantic search, prompt engineering, and structured AI report generation. Strong focus on clean architecture, secure authentication, cloud deployment, performance optimization, and user-friendly product delivery.

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS

Frontend: React.js, Next.js, Material-UI, Ant Design, Tailwind CSS, Redux, responsive UI/UX

Backend: Node.js, Express.js, FastAPI, RESTful APIs, Strapi CMS, authentication, RBAC, API integrations

AI / LLM Engineering: OpenAI, Gemini, Whisper, ElevenLabs, AI agents, RAG, embeddings, semantic search, vector databases

Prompt Engineering: zero-shot, one-shot, few-shot, role-based prompts, system prompts, JSON-structured prompts, prompt chaining

Databases: MongoDB, PostgreSQL, Mongoose, pgvector, query optimization, indexing, caching

DevOps & Cloud: AWS EC2/S3, DigitalOcean, Docker, CI/CD, Nginx, cloud deployment, cost and performance optimization

Tools & Integrations: Git, Stripe, PayPal, OAuth, JWT, Postman, Socket.IO, WebRTC, Microsoft Graph API, Cloudinary

Professional Experience

Full-Stack Developer | [Tkturners.com](https://www.tkturners.com)

Mar 2024 - Present

- Built and maintained AI-enabled SaaS products using Next.js, Node.js, FastAPI, Strapi, PostgreSQL, MongoDB, AWS, and Docker.
- Integrated OpenAI, Gemini, Whisper, and ElevenLabs workflows for AI reports, transcription, voice agents, prompt-based generation, and automation.
- Designed AI agent configurations including system prompts, first messages, voice settings, knowledge base mapping, tool settings, and structured JSON outputs.
- Implemented RAG and semantic search flows using embeddings, Pinecone/pgvector concepts, document chunking, and retrieval-augmented prompt design.
- Built secure authentication, RBAC, admin dashboards, payment flows, file/media handling, and cloud-ready backend APIs.
- Worked directly with clients and product teams to gather requirements, review demos, improve UX, and ship production-ready features.

Full-Stack Developer | [Vietech.pro](https://www.vietech.pro)

Apr 2023 - Feb 2024

- Developed and maintained features for Madrasa.io educational platform serving 5,000+ active users.
- Built responsive React/Next.js interfaces using Ant Design, Tailwind CSS, and reusable component patterns.
- Implemented secure authentication using JWT and bcrypt.js, supporting role-based access and 100+ daily logins.
- Created RESTful APIs with Node.js/Express.js and MongoDB, improving response time through cleaner queries and optimized data handling.
- Collaborated with cross-functional teams to deliver LMS, payments, dashboards, and reporting features on schedule.

Full-Stack Developer Intern | [Firmtechservices.com](https://www.firmtechservices.com)

Jan 2023 - Mar 2023

- Developed responsive websites and dashboard features from Figma designs with strong attention to pixel accuracy and mobile compatibility.
 - Built CRUD APIs using Express.js and integrated React.js frontend flows for user-facing application modules.
 - Participated in sprint meetings, code reviews, debugging sessions, and production-style delivery practices.
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Projects

Fiddi.ai | Next.js, Node.js, Express.js, OpenAI, Gemini, Pinecone, PostgreSQL, MUI, Stripe

Developed an AI-driven financial insights, report generation, and automation platform.

- Integrated OpenAI/Gemini workflows for generating summaries, reports, insights, and structured AI outputs.
- Implemented RAG-style semantic search using Pinecone concepts for user/business data retrieval.
- Built responsive dashboards, secure authentication, Stripe subscriptions, and optimized query/caching flows.

Live: <https://fiddi.ai>

Voxento.com | React.js, FastAPI, WebRTC, Whisper, OpenAI, AWS, Tailwind CSS

Built a real-time AI communication and transcription platform.

- Integrated WebRTC calling with AI transcription using Whisper/OpenAI workflows.
- Developed FastAPI services for call management, transcription storage, analytics, and user data.
- Deployed scalable infrastructure on AWS EC2/S3 and created responsive dashboards for call metrics.

Live: <https://voxento.com>

CEO AI Agent / Voice Agent Dashboard | Next.js, Strapi, ElevenLabs, OpenAI, RAG, MUI

Built a private AI agent management dashboard for configuring voice/chat agents.

- Created agent configuration flows for system prompts, first messages, voice settings, knowledge bases, and tool IDs.
- Managed conversation_config, platform_settings, RAG options, custom LLM settings, and structured JSON payloads.
- Built responsive dashboard screens, drawers, validation, and API flows for creating, updating, and managing agents.

Status: Private client/internal project - public link not available

Course Audio AI Training Platform | Next.js, OpenAI, ElevenLabs, Cloudinary, Strapi, MUI

Developed an AI-powered course/audio training workflow with generated modules and scoring.

- Generated training content, voice audio, Q&A, reports, and scoring flows using GPT and ElevenLabs.
- Used Cloudinary for media storage and optimized generation with retries and Promise.allSettled workflows.
- Built module-based UI, audio player experience, reports, and admin controls.

Status: Private client/internal project - public link not available

RecoverPay | Next.js, Node.js, Baileys, Socket.IO, OpenAI/Gemini-ready, MUI, MongoDB

Built a public WhatsApp CRM and lead recovery SaaS for businesses that want to manage leads, follow-ups, campaigns, and customer conversations from one dashboard.

- Implemented WhatsApp connection flows, QR/session handling, lead import, campaigns, settings, quotas, and real-time Socket.IO updates.
- Designed AI-ready campaign workflows for lead segmentation, message rewriting, prompt-based follow-up copy, and smart recovery automation.
- Created responsive SaaS dashboards for lead management, campaign metrics, WhatsApp CRM workflows, and user/team settings.

Live: <https://recoverpay.cloud>

AI Shopify Product Enrichment Dashboard | Next.js, FastAPI/Node.js, Shopify APIs, OpenAI/Gemini, PostgreSQL, AWS

Built a private AI dashboard for Shopify product enrichment, catalog optimization, tagging, and automation support.

- Integrated Shopify product/store data with AI enrichment workflows for titles, descriptions, product attributes, tags, and metadata quality checks.
- Added prompt-based enrichment flows using zero-shot, one-shot, few-shot, role-based, and JSON-structured prompts for consistent product outputs.
- Developed tag management, filters, review workflows, API integrations, authentication, and cloud deployment structure.

Status: Private client/internal project - public link not available

Sonic-Jingles | Next.js, MUI, OpenAI, FastAPI, AWS

Developed an AI music generation platform that creates music from text prompts.

- Implemented GPT-based prompt enhancement to convert user ideas into better music-generation inputs.
- Built FastAPI backend workflows that process prompts and communicate with external generation services.
- Deployed on AWS EC2/S3 and managed audio generation/storage workflows.

Live: <https://sonic-jingles.com>

Mudrsec LMS / Arabic LMS | Next.js, Node.js, Express.js, MUI, AWS, OAuth, AI-ready LMS

Developed a full-featured LMS supporting Arabic/multilingual content, video streaming, and tutor scheduling.

- Built scalable frontend/backend architecture for courses, users, scheduling, video, and admin management.
- Integrated payments, OAuth authentication, AWS S3 storage, and code-splitting for better loading performance.
- Planned AI tutor/RAG-ready learning assistant architecture for content search, Q&A, and learner support.

Live: <https://mudrsec.vercel.app>

Stack Digital Card | Next.js, Express.js, TypeScript, Stripe, PayPal, Cloudinary

Created a SaaS platform for customizable digital business cards with media support and analytics.

- Built type-safe frontend/backend flows for profile pages, custom cards, analytics, and user management.
- Integrated Stripe/PayPal subscriptions and Cloudinary media uploads for images, videos, and assets.
- Designed AI-ready profile/content generation flow for future smart bio and business-card suggestions.

Live: <https://stackdigitalcard.com>

Madrasa | MongoDB, Express.js, React.js, Stripe/PayPal, AWS, Redux

Developed an educational marketplace for course purchasing, tutor booking, and admin management.

- Built React/Redux frontend and Express/MongoDB backend for scalable marketplace operations.
- Integrated Stripe and PayPal payments, admin dashboards, reporting, and user management features.
- Deployed on AWS and maintained reliability, performance, and secure access flows.

Live: <https://madrasa.io>

Education

Master of Science in Artificial Intelligence (MSAI)

University of Management and Technology (UMT), Lahore | Sep 2025 - Present

Bachelor of Science in Computer Science (BSCS)

Virtual University, Lahore | Oct 2020 - Oct 2024