

Muhammad Faez Shabbir

Senior Full Stack Engineer · Python · TypeScript · React · Node.js · AI
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PROFESSIONAL SUMMARY

Full Stack Engineer with 4+ years of experience building production-grade web applications and backend systems using Python, TypeScript, React, Node.js, and Django. Experienced in designing REST APIs, PostgreSQL data systems, asynchronous processing with Celery and Redis, and containerized deployments using Docker, Kubernetes, and AWS. Hands-on experience building AI-driven features and LLM-powered systems with LangChain and Ollama, with a focus on performance, scalability, testing, and reliable production delivery.

PROFESSIONAL EXPERIENCE

Full Stack Developer | Visor Dynamics Pvt Ltd *Nov 2024 – Present*

- Led development of MERN stack services and Django backends for GIS and geospatial analytics platforms.
- Developed real-time video streaming solutions using mediaMTX, RTMP, and RTSP for live monitoring.
- Managed large-scale geospatial data integration for IoT devices, including processing complex vectors, rasters, and imagery with optimized storage solutions on AWS S3.
- Architected and deployed high-performance REST APIs to integrate third-party data providers, ensuring 99.9% data reliability for core business logic.
- Enhanced PostgreSQL query performance through indexing and schema refinement, reducing query latency by 30%.
- Planned scalable asynchronous job processing architectures using Celery and Redis to handle compute-intensive AI pipeline tasks efficiently.
- Managed infrastructure containerization and orchestration with Docker and Kubernetes (k8s) via AWS ECS/Fargate, establishing robust CI/CD pipelines for reproducible production environments.
- Developed and integrated AI-driven features using LangChain and Ollama to deploy and manage local LLM systems for intelligent data processing.
- Applied unit and integration testing (Pytest/Jest) to reduce regression rates in release cycles.
- Reduced deployment friction by 20% through streamlined CI/CD pipelines.

MERN & Next.js Developer | DigiSol 365 *Apr 2024 – Nov 2024*

- Developed and maintained high-performance REST APIs using Node.js and Express.js, integrating MongoDB and third-party services like payment gateways for 5+ client projects.
- Architected MongoDB and PostgreSQL schemas with streamlined query logic to support real-time data reporting and interactive dashboard features.
- Implemented JWT-based authentication and authorization flows across multiple client applications.
- Maintained a shared backend service library reused across projects, reducing duplicate API development work by ~30%.

Freelance Full Stack Developer | Self-Employed *Sep 2021 – Mar 2024*

- Independently created and built backend services and REST APIs for 10+ client applications using Node.js and PostgreSQL.
- Owned full project lifecycle: requirements, database design, API development, deployment, and post-launch maintenance.

KEY PROJECTS

ArtSobo Canvas App *React · Tailwind CSS · Canvas API*

- Led development of a proprietary canvas-based digital art platform, implementing advanced rendering components, multi-repo frontend architecture, and streamlined client-side performance.

Postlin *Python · Django · Strawberry GraphQL · Celery · Redis · PostgreSQL · AWS*

- Architected an AI-powered content automation engine utilizing Django and Celery to manage high-volume multimedia processing and scheduled publishing.
- Designed the data layer with Prisma over a relational schema supporting drafts, scheduling state, and analytics aggregation.

SpendSavvy *Python · Django · PostgreSQL · Stripe Connect · Redis*

- Built a scalable fintech dashboard featuring multi-party payout logic via Stripe Connect and optimized PostgreSQL aggregation for real-time spend analytics.
- Built reporting queries and category-based aggregation logic over PostgreSQL, with attention to data consistency on transaction writes.

GitShowcase *Node.js · TypeScript · Redis · GitHub API*

- Created a performant, SEO-optimized portfolio generator with high-fidelity multimedia integration and a simplified admin interface to ensure web accessibility and cross-browser compatibility at scale.
- Engineered a responsive 10+ page web platform for the DevHack club, featuring a custom admin portal for event management and accessible multimedia galleries for non-profit technical outreach.

Noola Impact *Next.js 16 · React 19 · Tailwind v4 · shadcn/ui · Zustand · SWR · Stripe Elements*

- Developed the frontend from scratch, building a scalable Next.js web client for the Noola Impact platform.
- Architected secure API communication by proxying all requests through Next.js route handlers to the Django backend.
- Implemented robust state management using Zustand and SWR, and integrated Stripe Elements for secure payment processing.

TECHNICAL SKILLS

Core Stack: MERN Stack (MongoDB, Express.js, React.js, Node.js), TypeScript, Next.js, Agile Development, Vite
Backend & API: Node.js, Express.js, NestJS, Django, FastAPI, Strawberry GraphQL, REST APIs, JWT/OAuth2, Microservices, Clean Architecture

Databases: PostgreSQL (advanced indexing, query optimisation, JSONB), Redis (caching & message broker), MongoDB, Prisma, TypeORM

Async & Queues: Celery, BullMQ, Redis-backed task scheduling, event-driven processing

Cloud & DevOps: AWS (ECS/Fargate, EC2, S3, RDS, IAM), Docker, Kubernetes, CI/CD, GitHub Actions

Testing: Jest, unit testing, integration testing, Postman

Frontend: React, Next.js, Responsive Design, Web Accessibility (WCAG), Cross-browser Compatibility, Tailwind CSS

Fintech & CMS: Stripe Connect integration, custom marketplace logic, headless CMS development, multimedia pipeline optimisation

Tools: Git, GitHub, Linux, Figma, VS Code

EDUCATION

BS Software Engineering · The Islamia University of Bahawalpur 2020 – 2024

Certifications: DevOps Foundations (2024) · React in Action: From Setup to Deployment (2024)

LEADERSHIP & COMMUNITY

- Microsoft Learn Student Ambassador (MLSA) – represented Microsoft in university tech outreach.
- Intel oneAPI Student Ambassador – promoted AI & HPC tooling to the academic community.
- Founder & President, DevHack Club – organised 50+ technical events, workshops, and hackathons.
- Technical Speaker – presented at Hacktoberfest 2023 and hosted Git & GitHub Deep Dive sessions.