

Abdullah Mujahid

Full Stack Software Engineer

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SUMMARY

As a Full Stack Software Engineer, I bring a unique blend of technical expertise and innovation to every project. From leading major platform automation initiatives to crafting seamless user experiences, I thrive on solving complex challenges with scalable, impactful solutions. My experience spans across industries, reflecting a deep commitment to delivering value through collaboration, precision, and creative problem-solving. Whether enhancing AI-driven workflows or streamlining customer-facing applications, my focus remains on creating technology that drives results and transforms ideas into reality.

TECHNICAL SKILLS

• Python • JavaScript • Django • React.js • Next.js • Agile • FAST API • PostgreSQL • MYSQL/MariaDB • Redis • MongoDB • Sentry • SonarQube • Design Patterns • TDD • AWS • Clickup • Github • Docker • Micro Frontend • Backend for Frontend • Amazon SES • Celery • Amazon Bedrock • CI/CD • Ngnix • Ether.js • Web3.py • Abstract Factory Pattern • JavaScript • Apache Kafka • Microservices • MageAI • DuckDB • Service Mesh • Event-Driven Architecture • ETL • Distributed Systems • MageAI • Apache Nifi

SOFT SKILLS

• Project Management • Team Leadership • Narrative Collaboration • Problem Solving • Time Management • Agile • Client Communication • Conflict Resolution

EXPERIENCE

Carte Blanche, Lahore, Pakistan — Senior Full Stack Software Engineer

May 2021 - PRESENT

- Worked as a full-stack developer with both product and project teams, creating scalable backends with Django/FastAPI and intuitive frontend designs using React/Next.js.
- Integrated multiple third-party services, including Stripe, SendGrid, OpenAI, and Mixpanel, while also developing custom applications for enhanced functionality.
- Leveraged cutting-edge technologies like LLMs, Langchain, and crewAI for innovative solutions while managing deployments across AWS, Vercel, and Heroku platforms.
- Apply agile methodologies and project management tools like ClickUp, Monday, and Trello.

Vada Innovation, UK (Remote) — Technical Lead | Project Manager

Jan 2023 - Present

- Developed data pipelines for efficient ETL processes
- Implemented high-performance analytics for large-scale data processing
- Built caching solutions using Redis to improve application response times by 60%
- Created RESTful APIs using Django for seamless front-end integration
- Managed containerised deployments using Docker and Docker Compose

Crocus Zone, USA (Remote) — *Software Engineer*

November 2022 - October 2024

- Designed and implemented microservices architecture using Django and FastAPI
- Built real-time data processing pipelines using Apache Kafka, Apache Nifi for high-throughput event streaming
- Developed and maintained distributed systems handling 100K+ monthly transactions
- Implemented service mesh patterns for microservices communication and monitoring
- Optimised application performance using Redis caching and load balancing

Global Group One, New York, USA (Remote) — *Development Lead*

Jan 2023 - August 2023

- Led the development of their product as both lead developer and project manager from requirement gathering to production deployment.
- Directed technical strategy and implementation, utilizing Django for backend, React.js for frontend, & AWS for deployment, ensuring high-quality solutions. Following best design patterns and practices.

BMJ Consultant, Ireland (Remote) — *Backend Developer*

June 2020 - June 2021

- Developed a high-quality Java Springboot-based application for efficient farm management at BMJ Consultants.
- Utilized coding skills and the latest technologies to deliver a scalable and user-friendly solution for over 600 farms.
- Collaborated with clients to understand their needs and optimize farm management processes.
- Achieved client satisfaction by meeting specific requirements and ensuring reliable application performance.

deSwot, Beirut, Lebanon (Remote) — *Full Stack Software Engineer*

Feb 2020 - May 2021

- Developed the Node.js backend to ensure website integrity and security.
- Turned design mockups into functional web interfaces using React.js.
- Created RESTful web services to handle dynamic data.
- Designed and developed software applications following industry standards.

EDUCATION

University of Management & Technology, Lahore, Pakistan — *Bachelor of Computer Science*

- CGPA: 3.57/4.0 | Rector's Award for a perfect GPA of 4.0 in a semester.
- Developed a full-stack MERN web application and a hybrid mobile application using React Native.
- Served as a Teaching Assistant for Data Structures and Algorithms, Database Systems, and Artificial Intelligence courses.
- Published a research paper that has received over 300 citations.

PROJECTS

Veterinary AI: As Lead Engineer, I architected and developed a comprehensive SaaS platform for veterinary practices using a microservices approach. I designed a dual-interface system with a doctor-facing admin portal for prompt engineering, knowledge base management, and AI interaction, alongside a public-facing interface for pet owners to submit queries and book appointments. I implemented custom LLM solutions for analyzing medical records, extracting critical data, and generating summaries of pet health issues. The platform leverages LangGraph for orchestrating AI workflows between different specialized nodes, integrating with a Pinecone vector database for retrieval-augmented generation. I established the complete development pipeline including containerization, CI/CD workflows, and cloud infrastructure on AWS.

Tech Used: Django, React.js, FastAPI, LangGraph, Pinecone, Stripe, AWS, PostgreSQL, Redis, Docker, OpenAI API, Custom LLMs.

RegNxt (Regulatory Reporting Platform): As Technical Lead and Solution Architect, I designed and developed a scalable regulatory reporting platform for financial institutions. I architected the core data management systems (BIRD and Orchestra) using microservices principles, implemented data versioning with comprehensive audit trails, and created visualization tools for complex data relationships. I refactored the codebase to implement clean architecture patterns, optimized API performance, and built a responsive UI with advanced filtering capabilities. Led development of Excel integration for data import/export, implemented dataset validation workflows, and mentored team members through code reviews and architectural guidance. The platform streamlined regulatory compliance processes while maintaining data integrity across reporting workflows.

Tech Used: Django, React, TypeScript, Azure Cloud, Azure API Gateway, PostgreSQL, MageAI, Firebase, Tailwind CSS, and Docker

Public Editor: As a Backend and AI Engineer, I contributed to developing and automating the Public Editor's platform. My role involved implementing a robust authentication system and integrating Amazon SES for seamless email communication. Additionally, I set up Stripe as the payment gateway to streamline subscription and billing processes. On the AI front, I integrated and utilized Anthropic Claude 3.5 to drive advanced automation within the platform. This included implementing NLP solutions to analyze and process content, automating workflows, and developing tools for scraping and analysing articles effectively. These enhancements significantly optimized the platform's capabilities, improving user efficiency and content management.

Tech Used: Django, Stripe, Amazon SES, PostgreSQL, Redis, Anthropic Claude 3.5, Python (NLP libraries).

Hirecinch (Applicant Tracking System): I developed features for both the front end using React.js and the backend using Django. I led a major refactoring project to update the product with new design standards, focusing on scalability and efficiency. I optimized backend processes and improved frontend usability, including implementing a billing system with Stripe's API, integrating AI, customizing workflows, and integrating a Resume Parser microservice. Additionally, I created a Custom Career Page for organizations and used SendGrid to enhance email communication between users and applicants.

Tech Used: Django, React.js, Next.js, Node.js, AWS, PostgreSQL, MUI, Tailwind, Redis

LKSY: I developed LKSY for JILAEE, a project named "Learning by Teaming" that uses Django for the website and is hosted on Heroku. The site allows users to complete coding tasks using Scratch, with tasks and submissions managed through AWS S3 and tested with the Whisker framework on AWS Lambda. I also set up Redis for background tasks and Celery to manage them. The site features a Custom Career Page and integrates SendGrid for email communication. The project supports task handling and user feedback, and includes local setup instructions

for development.

Tech Used: Django, Heroku, AWS, Celery, Redis

Deals 4 Autos – Car BDC Service: I led the development of the Deals4Autos website and web application using React.js, Django, PostgreSQL, and WordPress. I revamped the system from PHP to React and Django, improving efficiency and modernizing the platform. I integrated payment systems with Wells Fargo Bank, Stripe, and PayPal, and developed a customizable dashboard for user personalization. Additionally, I built a scalable backend infrastructure, migrated their server to AWS, and ensured optimal performance and reliability.

Tech Used: Django, React.js, WordPress, CPanel, PostgreSQL, AWS

Arisbe: I worked with the project team to develop and deploy Arisbe, an e-learning platform using Django for the backend and React.js for the frontend, hosted on AWS. The platform supports virtual classes with Zoom integration, allows quiz creation, and provides assessment tools. My role included designing the architecture, developing backend APIs, implementing custom front-end components, and managing background tasks with Celery.

Tech Used: Django, React.js, Zoom, AWS, PostgreSQL

Gladiator Finance – NFT Marketplace: I developed essential backend APIs for the marketplace and implemented frontend wallet integrations to facilitate the invocation of smart contract functions from the backend. Furthermore, I handled the front-end integration, which involved calling smart contracts from the backend.

Tech Used: Django, Smart Contracts, Blockchain, React.js, Node.js, AWS

Defispot — Decentralized cross-chain liquidity exchange: I took charge of crafting essential backend wallet APIs using exchange.js. These APIs powered a versatile multi-chain wallet capable of seamlessly handling Ethereum, Bitcoin, Binance, and other cryptocurrencies. The wallet not only facilitated simple and secure transactions but also stood out for its compatibility and ease of use in a variety of decentralized environments.

Tech Used: Exchange.js, Django, React.js, AWS

Swiss block — Trade Funding: I contributed to the development of a centralized exchange. I created a user-friendly wallet utilising web3.js. Additionally, I played a key role in constructing the backend APIs required for managing balances and facilitating transactions on the exchange.

Tech Used: Web3.js, Django, Blockchain, React.js, AWS

Chimera — NFT Marketplace: I developed essential backend APIs for the marketplace and implemented frontend wallet integrations to facilitate the invocation of smart contract functions from the backend. This work was carried out within a collaborative team environment.

Tech Used: NFT, Smart Contracts, Django, React.js, Node.js, AWS