

# MUHAMMAD IBRAHIM KAMAL

Seasoned Software Engineer | Python & LLM Specialist | Scalable AI Solutions Architect

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## Professional Summary

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Passionate full stack software engineer and machine learning specialist skilled in Python and NodeJS. Developed scalable AI support systems using LLM orchestration frameworks and prompt engineering. Collaborated with data engineering teams to design scalable data pipelines. Designed scalable web applications and fine-tuned deep learning models for video classification. Evaluated emerging technologies for innovative solutions and led code reviews to guide software architecture decisions.

## Skills

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**Languages:** Typescript, Python, C++ • **Web Development:** MERN, Next.js, NestJS, Django, FastAPI • **AI Development:** Machine Learning, Model Fine-Tuning, Large Language Models, AI Automation, Retrieval-Augmented Generation • **Dev Ops:** Cloud Computing, AWS, GCP, AZURE

## Work Experience

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**Qantic GmbH** • Berlin, Germany

Jul 2025 - Present

*Senior Software Engineering Consultant*

- Developed and maintained Python-based backend services for AI-driven chatbot systems, including API development, data processing, and system integrations.
- Implemented LLM-powered conversational AI solutions using Python, leveraging LLM orchestration frameworks, prompt engineering, and context management for accurate and scalable interactions.
- Designed and optimized AI support and automation systems using Python and machine learning models for automated customer assistance and intelligent knowledge-base querying.
- Integrated workflow automation tools (n8n) with Python services to orchestrate background jobs, AI workflows, and data processing tasks.

**SparkSol** • Multan, Pakistan

Aug 2024 - Aug 2025

*Full Stack Developer*

- Architected robust Python-based backend solutions using Django and FastAPI, delivering high-performance applications with optimized response times averaging under 200ms.
- Designed and restructured backend architecture for projects such as MySpace, integrating AI-driven services and collaborating across stacks (including NestJS) while maintaining Python-based core logic and services.
- Customized and integrated Python-based deep learning and automation algorithms to streamline workflows, improving operational efficiency and reducing execution time by ~15 hours per week.
- Contributed to an SEO-focused production platform (seoella.com) by building and integrating Python backend services and APIs, supporting a Next.js frontend and cross-service communication.

**VerticeSol** • Multan, Pakistan

Jan 2024 - Aug 2024

*Backend Developer*

- Carried two major projects based upon React and Django flask also trained model for face recognition and image OCR manipulation.
- Developed Booked Direct (Django, Rasa, React, Twilio server) web application that works for truck booking and supply chain management.

**Upwork** • Remote

Feb 2022 - Jan 2024

*Full Stack Web Developer*

- Designed and developed web applications using the MERN stack and Next.js for AI-driven projects, including szechuan.ai and TypeBot.io.
- Integrated AWS Face Recognition, Firebase, S3 Buckets, to enhance functionality and user experience

## Education

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Bachelor of Science, Computer Science

Oct 2020 - Jun 2024

*Air University*