

Muhammad Humza

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🌐 humzajameel 📍 Cottbus, Germany 🏠 Willing to relocate



📄 PROFILE

AI & Full-Stack Engineer with 3+ years of experience building enterprise applications and production-grade AI workflows. Skilled in TypeScript/Node.js and Python, with hands-on experience designing LangGraph/LangChain multi-agent systems, RAG pipelines, and deploying containerized solutions that reduce latency and automate business processes.

🧠 TECHNICAL SKILLS

Applied AI & Data

LangChain, LangGraph, RAG Pipelines, Multi-Agent Systems, Prompt Engineering, Vector Databases, MLOps, Scikit-learn

Backend & Cloud

Node.js, TypeScript, Python, FastAPI, C#, REST/GraphQL APIs, Docker, Kubernetes, CI/CD, AWS, Azure

Databases & Data Platforms

PostgreSQL, MongoDB, Redis, Snowflake, Databricks, Cosmos DB

Frontend Development

React, Next.js, JavaScript (ES6+), TypeScript, Tailwind CSS, Redux, Zustand

🌐 LANGUAGES

English: C1

German: A2

📁 EXPERIENCE

AI / Full-Stack Engineer, New Digital Intelligence GmbH, Berlin

05/2024 – 08/2025 | Berlin

- Architected and deployed agentic AI workflows and RAG pipelines, bridging intelligent data extraction with scalable enterprise infrastructure.
- Built real-time asynchronous data pipelines and integrated autonomous AI triggers directly with live customer support ticket systems via Node.js, replacing manual data-entry workflows.
- Shipped responsive React/TypeScript frontends and containerized microservices, utilizing modern AI coding assistants (Cursor, Claude Code) to drastically accelerate feature delivery and test coverage.

Product Development Engineer, Habib Bank Limited, Pakistan

08/2022 – 03/2023 | Pakistan

- Engineered and maintained secure, high-traffic service architectures for enterprise banking applications, directly impacting thousands of daily active users.
- Fine-tuned GPT-3 on internal bank policies to automate responses to employee queries.
- Refactored legacy monolithic processes into modular, maintainable UI components and backend services, establishing automated CI/CD pipelines to prevent production downtime.

Software Engineer, United Bank Limited, Pakistan

11/2021 – 08/2022 | Pakistan

- Automated business workflows to boost cross-departmental efficiency, ensuring compliance with enterprise security standards.
- Modernized financial web portals and created high-performance REST APIs with C# (.NET) and Node.js, enhancing secure transaction processing.
- Designed and optimized transactional SQL queries and custom stored procedures, significantly improving the performance of critical banking database operations

📁 PROJECTS

DB Tight-Transfer Risk Predictor, XGBoost · FastAPI · MLflow · Docker

End-to-end ML system predicting missed-connection risk across 12 Berlin rail hubs. Built an ETL pipeline processing 8.5M+ records into 175K+ labeled events (0.49 F1-score). Deployed as a FastAPI + Docker service.

🎓 EDUCATION

Brandenburg University of Technology, M.Sc. Artificial Intelligence

04/2023 – 12/2026

COMSATS University Islamabad, Pakistan, B.Sc. Computer Science

02/2017 – 01/2021