

# M Faisal Lodhi

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## Professional Summary

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AI-focused Software Engineer with strong hands-on experience in Retrieval-Augmented Generation (RAG), intelligent document processing, and full-stack application development. Proven ability to design scalable backend systems, semantic search pipelines, and AI-powered applications using FastAPI, Django, React, and vector databases. Passionate about building production-ready systems that combine clean architecture, LLM reasoning, and real-world usability.

## Education

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**SZABIST Islamabad** 2020–2024  
Bachelor of Computer Science

## Technical Skills

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<b>Programming</b>	Python, C++, C#, Java
<b>AI / ML</b>	RAG, LLMs, NLP, Embeddings, Semantic Search
<b>Vector Databases</b>	FAISS, ChromaDB
<b>Frameworks</b>	FastAPI, Django, Flask, LangChain
<b>Frontend</b>	React 18, HTML, CSS, JavaScript, Tailwind CSS
<b>Databases</b>	MongoDB, MySQL, PostgreSQL, SQL
<b>Tools</b>	Git/GitHub, Docker, Streamlit, Selenium
<b>Other</b>	WordPress, Firebase, REST APIs

## Experience

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**AI Engineer – Intern (PSEB Employee)** Nov 17, 2025–Present  
DevGate · Onsite · Islamabad

- Building intelligent AI systems focused on document understanding, semantic search, and RAG pipelines.
- Developed full-stack AI-powered document summarization platform using FastAPI, React, ChromaDB, and DeepSeek LLM.
- Implemented async background processing with live job status tracking and polling.
- Designed scalable vector search pipelines and context-aware summarization workflows.
- Integrated analytics dashboards, PDF export, and real-time inference services.

**Junior Developer** Oct 2024–Jul 2025  
Predictive-Lab · Islamabad

- Developed AI-powered applications including PDF chatbots using OCR, chunking, embeddings, and RAG.

- Built Flask-based university assistant using MiniLM embeddings and DeepSeek LLM.
- Created full-stack Django applications with authentication, admin dashboards, and database integration.

**Software Developer**  
ZONG HQ CMPAK · Islamabad

Jun 2024–Sep 2024

- Developed ASP.NET Core applications following MVC architecture.
- Built CRUD-based task management system using Entity Framework and MySQL.
- Implemented backend automation tools using cURL-based integrations.

## Projects

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- **AI-Powered Document Summarization System (RAG-Based):**  
Full-stack intelligent document processing system enabling deep document understanding and cumulative learning.
  - Supports PDF, DOCX, TXT, and image uploads with OCR-based text extraction.
  - Uses ChromaDB vector database with DeepSeek LLM for context-aware summarization.
  - Implements semantic search with relevance scoring across all documents.
  - Extracts numerical data and presents structured analytical tables.
  - Generates executive summaries, industry impact analysis, limitations, and future directions.
- **Talk With Your PDF:** Django-based RAG chatbot using FAISS embeddings and Groq-Cloud LLM with fallback search.
- **University Assistant:** Flask-based RAG system retrieving handbook and FAQ data using MiniLM embeddings.
- **Car Parts E-Commerce Platform:** Django application with secure authentication, cart, checkout, and admin dashboard.
- **React Portfolio Website:** Responsive portfolio with React Router, dark mode, EmailJS, and CI/CD deployment.
- **Task Management System:** ASP.NET Core CRUD application using MySQL and MVC architecture.
- **AR-Based Kids Dictionary:** Unity 3D and Firebase-powered augmented reality learning application.

## Certifications & Training

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- Agentic AI Program – Air University (PIAIC)
- Cyber Security – NAVTTC

## Languages

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**English:** Professional Working Proficiency

**Urdu:** Native