

# MUHAMMAD SALMAN KHAN

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linkedin | github | Portfolio

## Summary

Python Developer with expertise in full-stack web development and AI-powered applications using Django, Flask, and React.js. Proven ability to architect and deploy production-ready solutions integrating machine learning models, vector databases, and LLM APIs. Experienced in building intelligent systems with semantic search, natural language processing, and RESTful API design. Strong focus on code quality, scalable architectures, and innovative AI implementations. Seeking opportunities to leverage technical skills in backend development and AI/ML integration to drive innovation in dynamic environments.

## Education

### University of Education

Bachelor's in Information Technology – GPA: 3.39

Lahore, Pakistan

Expected 2026

### Riphah International University

ADP in Computer Science – CGPA: 3.80

Lahore, Pakistan

Aug 2022 – Aug 2024

## Projects

### DocuMind | Django REST Framework, JWT, PostgreSQL, Gemini API, ChromaDB, LangChain | Dec 2025 – Present

- Architected an AI-powered PDF chat application enabling users to upload documents and interact with content through natural language queries.
- Implemented secure user authentication system with JWT tokens, OTP-based email verification, and comprehensive password management features.
- Designed RESTful APIs for document management with file validation, status tracking, and user-document access control.
- Integrated Google Gemini API for intelligent question answering and Sentence Transformers for semantic search capabilities.

### ShopIT | React.js, Tailwind CSS, Django REST Framework, PostgreSQL, Supabase |

June 2025 – Aug 2025

- Developed a full-featured eCommerce platform with product management, user authentication, shopping cart, and checkout functionalities.
- Integrated Supabase and PostgreSQL for secure authentication and efficient data management.
- Implemented responsive design and focused on clean architecture, API efficiency, and performance optimization for scalable deployment.

### WebEase | React.js, Django, REST API |

April 2025 – May 2025

- Built a multi-utility platform offering tools including image compression, typing speed test, text utilities, and URL shortener.
- Developed interactive frontend using React.js and backend APIs using Django for efficient logic handling.
- Emphasized modular component design and smooth integration of multiple features within a single application.

### Personal Portfolio | React.js, Django REST Framework, PostgreSQL, Supabase |

March 2025 – April 2025

- Developed a personal portfolio website showcasing projects and skills with dynamic data management.
- Integrated Supabase and PostgreSQL for seamless API handling and database operations.
- Implemented responsive design, dark mode, and interactive animations for modern UI/UX.

### Code The World | HTML, CSS, JavaScript, Bootstrap, PHP, MySQL |

2024

- Engineered an educational platform where students can enroll in different courses provided by the institute.
- Implemented user authentication, course management, and enrollment system with MySQL database.

### CodePlayer | HTML, CSS, JavaScript |

2024

- Developed an interactive platform allowing users to write HTML, CSS, and JavaScript code with live output display.
- Implemented real-time code execution and preview functionality for enhanced learning experience.

## Technical Skills

**Backend:** Python, Django, Django REST Framework, Flask, REST API

**Frontend:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Bootstrap

**Databases:** PostgreSQL, MySQL, Supabase

**Tools & Technologies:** Git, GitHub, Postman, Linux, VS Code

**AI/ML:** LLM API, LangChain, Sentence Transformers, ChromaDB

## Courses & Certifications

### Python Programming

2025

Great Learning

### Python Programming

2025

Kaggle

### Web Development

2024

NITSEP