

# Farhan Hafeez

Sr. Python/Django Engineer

+92 307 1581854   farhanhafeez985@gmail.com   Github   LinkedIn   Pakistan

## SUMMARY

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Senior Python/Django Engineer with 4+ years of experience building scalable backend systems and data pipelines. Experienced in FastAPI, PostgreSQL, and AI/LLM integrations, with a strong focus on performance optimization and clean architecture. Proven ability to deliver reliable, production-grade solutions.

## EXPERIENCE

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### SparkAI

Senior Backend Developer

Jul 2025 – Present

Lahore, Pakistan

- Contributed to the creation of **PromptPrivacy**, a product focused on secure data ingestion, semantic processing, and AI-driven content governance.
- Enhanced and maintained scalable APIs for structured and unstructured data pipelines, including ingestion, transformation, validation, and indexing workflows.
- Improved existing backend modules and introduced new features to boost system functionality and reliability.
- Utilized semantic search and retrieval using vector embeddings to enable context-aware querying and intelligent filtering.
- Built data classification and compliance-aware processing components to detect sensitive and regulated information.
- Optimized PostgreSQL and Neo4j queries, improving response performance by 40% for high-volume workloads.
- Executed batch processing workflows for large datasets, improving processing efficiency and reducing system latency.
- Collaborated with AI teams to improve prompt orchestration and contextual response accuracy in LLM-based systems.

### Gulzarsoft

Senior Software Engineer | Team Lead

Jun 2022 – Jun 2025

Gujrat, Pakistan

- Led backend architecture planning and creation using Django and Django REST Framework for scalable enterprise applications.
- Planned high-throughput ELT data pipelines for automated large-scale web data extraction and processing.
- Integrated AI APIs including GPT-4o for intelligent content generation, summarization, and workflow automation.
- Improved database schemas, indexing strategies, and background job processing to enhance system performance and reliability.
- Mentored developers and enforced coding standards through structured code reviews to improve maintainability and delivery efficiency.

### Softwear Pattern

Software Engineer | Python & Web Scraping

Jun 2021 – Jul 2022

Islamabad, Pakistan

- Built scalable scraping frameworks for dynamic and data-intensive platforms using Scrapy and Selenium.
- Created resilient data extraction pipelines with proxy management, error handling, and retry strategies.
- Developed RESTful APIs for structured data exposure and internal service integration.
- Systematized repetitive data workflows, reducing manual processing effort by over 80%.

## PROJECTS

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### PromptPrivacy

Python, FastAPI, PostgreSQL, Neo4j, LLM

- Architected a backend privacy-focused AI processing system that enforces data governance before and after LLM interactions.
- Built dynamic text analysis pipelines for entity detection, sensitive data masking, and rule-based content filtering.
- Employed configurable policy-driven processing to support compliance-aware AI workflows.
- Implemented semantic indexing and retrieval mechanisms to enable intelligent search across large document collections.

- Developed scalable background task processing for bulk document analysis and batch classification.

### **Scalable Web Scraping Framework**

*Python, Scrapy, Playwright*

- Engineered distributed scraping architecture supporting high-volume and JavaScript-rendered websites.
- Implemented scheduling, retry logic, and monitoring mechanisms for reliable data acquisition.
- Built structured storage pipelines for downstream analytics and processing systems.

### **AI-Powered Automation System**

*Python, OpenAI API, FastAPI*

- Built AI-driven backend services for automated text generation, summarization, and classification.
- Created modular API architecture enabling seamless integration with client applications.
- Put into practice structured prompt handling and response validation for consistent AI outputs.

## **EDUCATION**

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### **Pir Mehr Ali Shah Arid Agriculture University**

*Bachelor of Science in Computer Science*

2017 – 2021  
Pakistan

- **Relevant Coursework:** Data Structures, Algorithms, Databases, Software Engineering.

## **SKILLS**

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**Languages:** Python, JavaScript, SQL

**Frameworks & APIs:** Django, Django REST Framework (DRF), FastAPI, Flask

**Databases:** PostgreSQL, MySQL, MongoDB, Neo4j

**AI & Automation:** OpenAI API, LLM Integration, Prompt Engineering

**Web Scraping & Automation:** Scrapy, Selenium, Playwright

**Cloud & DevOps:** AWS (EC2, RDS, S3), Nginx

**Tools:** Git, GitHub