Hanzala Kashif

Senior Python Back-End Engineer | 5+ Years of Experience | Flask, FastAPI, PostgreSQL, AWS, SaaS, Scalable API Systems

Experienced Senior Python Backend Engineer with 4+ years of expertise in developing scalable backend systems, AI solutions, and high-performance applications. Proven track record in building robust RESTful APIs, implementing microservices architecture, and optimizing database performance using PostgreSQL. Skilled in Flask, FastAPI, Django, and cloud platforms (AWS, Azure). Strong background in developing SaaS platforms, automated testing, and secure coding practices. Excellent communication skills with experience in remote collaboration and cross-functional team leadership.

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TECHNICAL EXPERIENCE

Programming Languages: Python, JavaScript, SQL, C#
Backend Frameworks: Flask, FastAPI, Django, Django REST Framework
Databases: PostgreSQL, Azure Cosmos DB, NoSQL, SQL Server
Cloud Platforms: AWS (Lambda, EC2, S3), Microsoft Azure (Functions, DevOps, AI Search)
API Development: RESTful APIs, OAuth 2.0, API Integration, OpenAPI Specification (OAS)
DevOps & Tools: Git, Docker, CI/CD, Azure DevOps, Microservices Architecture
AI/ML Technologies: Large Language Models (LLM), LangChain, LangGraph, RAG, OpenAI
Testing: Unit Testing, Integration Testing, Test Driven Development (TDD)
Other: Linux, HTML5, CSS, Angular, Celery, Pandas, NumPy

SKILLS

Languages & Frameworks: Python (Flask, FastAPI), RESTful API Development

Databases: PostgreSQL (schema design, optimization), experience with other SQL/NoSQL DBs

Cloud Platforms: AWS (EC2, S3, Lambda, etc.), familiarity with Azure/GCP

Testing & Security: Unit/Integration Testing, Secure Coding Practices, OAuth2

DevOps & CI/CD: Git, GitHub/GitLab, Docker, Kubernetes (preferred), CI/CD Pipelines

Team Collaboration: Slack, Zoom, Google Docs, Agile/Scrum

WORK EXPERIENCE

09/2024 - Present

Fleekbiz
Pakistan

Python Developer

- Developed and maintained scalable backend systems using Python, Flask, and FastAPI with PostgreSQL database optimization
- Implemented AI-powered solutions including Large Language Models (LLM) and Retrieval-Augmented Generation (RAG) systems
- Built and deployed Azure Functions and RESTful APIs for microservices architecture
- Utilized Microsoft Azure services including Azure Cosmos DB, Azure AI Search, and Azure DevOps
- Collaborated with cross-functional teams using modern communication tools and agile methodologies
- Implemented secure coding practices and OAuth 2.0 authentication systems

02/2024 - 12/2024

Brandigo
Pakistan

Python Developer

- Designed and developed high-performance backend applications using Flask and Django frameworks
- Optimized PostgreSQL database performance through advanced query optimization and schema design
- Integrated third-party APIs and web services using REST and SOAP protocols
- Implemented AWS services including Lambda functions for serverless architecture
- Maintained code quality through comprehensive unit testing and code review processes
- Collaborated with frontend teams using JavaScript and Angular for full-stack development

01/2023 - 02/2024

Crystallite
Pakistan

Python Developer

- Developed scalable SaaS applications using Django and Django REST Framework
- Implemented automated testing frameworks and continuous integration pipelines
- Optimized application performance for high-volume data environments
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Designed and maintained RESTful APIs following best practices and documentation standards

- Utilized Docker for containerized deployment and AWS Lambda for serverless computing
- Managed version control using Git with advanced branching and merging strategies

01/2022 - 01/2023   **Python Developer**

3Const
Pakistan

- Built backend systems using Python frameworks with focus on clean, optimized code
- Implemented Object-Relational Mapping (ORM) and database integration solutions
- Developed and maintained REST APIs with comprehensive documentation
- Collaborated with team members using Git version control and task management systems
- Utilized Linux environments for development and deployment processes

KEYPROJECTS

Legal AI Assistant (Ongoing)

- Developing cutting-edge AI assistant using RAG and LLM architectures for legal insights
- Implementing LangChain and contextual RAG for enhanced query processing
- Utilizing Azure AI services and OpenAI integration for intelligent responses

Travel Recommendation System

- Built AI-powered recommendation engine using machine learning algorithms
- Implemented predictive models using Random Forest Classifier with Pandas and NumPy
- Designed scalable backend API for personalized travel destination suggestions

Parking Management System

- Developed Flask-based microservices system for user authentication and payment processing
- Implemented secure slot management with PostgreSQL database optimization
- Created comprehensive API documentation and automated testing suite

Social Media Platform

- Built real-time communication features including notifications and video calls
- Implemented scalable backend architecture for media sharing and user interaction
- Optimized database performance for high-volume social media engagement

LANGUAGES

- **Urdu** - Native
- **English** - Advanced

EDUCATION

2027	**Bachelor's Degree**	
Virtual University; Pakistan	Bachelor of Science - Computer Software Engineering; Computer Science	
2024	**Diploma Degree**	
Aptech Pakistan	Computer Software Engineer - Computer Science	

ADDITIONAL INFORMATION

- Proficient in building and shipping SaaS software solutions
- Experience with automated unit testing and Test Driven Development (TDD)
- Strong background in secure coding practices and vulnerability assessment
- Proven ability to work remotely with North American business hours
- Excellent written and verbal English communication skills
- Experience in agile development methodologies and cross-functional collaboration