

SHAHEER BIN IJAZ

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SUMMARY

Senior Software Engineer with **6+ years** of experience designing and scaling distributed, cloud-native backend systems across education, healthcare, and fintech platforms. Skilled in Python, Django, FastAPI, microservices, and event-driven architectures using Pub/Sub, RabbitMQ, Celery, and Redis. Improved API performance by up to 40%, reduced async processing delays through reliable queue-based workflows, and strengthened system reliability with idempotency, retries, and observability. Experienced in optimizing PostgreSQL queries, CI/CD pipelines, and third-party integrations including payments, ERP, and blockchain services. Strong collaborator in cross-functional teams, delivering secure, scalable, and production-grade platforms.

SKILLS

• Python	• Django/DRF	• FastAPI's	• Pandas
• Celery	• PostgreSQL	• NoSQL	• Google BigQuery
• GCP	• AWS	• Docker	• Kubernetes
• Keras	• YOLO	• OpenCV	• Matplotlib
• System Design	• Microservices	• Distributed Systems	• Event-Driven Architecture

PROFESSIONAL EXPERIENCE

DEVSINC

Senior Software Engineer, Python

Lahore, Pakistan

Aug 2024 – Current

- Led a team of 3 Python engineers in designing, developing, and scaling backend services for EdTech Platform, improving delivery ownership, code quality, and sprint execution across multiple product modules.
- Transitioned key Django-based backend components toward modular FastAPI microservices, improving service maintainability and reducing deployment dependencies by nearly 35%.
- Designed and implemented scalable REST APIs using Python, Django REST Framework, FastAPI, PostgreSQL, Redis, and Celery to support high-volume education workflows and learner-facing features.
- Implemented event-driven workflows using Google Pub/Sub, RabbitMQ, Celery, and the outbox pattern, reducing cross-service processing delays by up to 40% and improving asynchronous reliability.
- Integrated third-party billing, payment, and financial systems including Dash, Visa, and QuickBooks Online, enabling automated invoicing, reward disbursement, and transaction reconciliation.
- Optimized PostgreSQL queries, indexes, connection pooling, and background jobs, reducing API response times by approximately 30% and improving platform stability under increased user activity.
- Built and maintained scheduled jobs, distributed workers, retry mechanisms, and failure-handling workflows, increasing operational reliability and reducing manual intervention in recurring business processes.
- Improved production reliability by debugging critical bottlenecks, adding caching strategies, strengthening idempotency checks, and enhancing monitoring for high-impact backend services.
- Collaborated with product managers, QA engineers, DevOps teams, and stakeholders to deliver scalable education platform features while maintaining clean architecture, documentation, and engineering standards.

CODE DISTRICT
Senior Software Engineer, Python

Lahore, Pakistan
Jun 2022 – Jul 2024

- Developed and maintained backend systems for service-based client projects including HealthPro ERP, Kenya's Tiberbu national healthcare initiative, Caribbean Airlines Refund Management System, and a Solana blockchain marketplace.
- Engineered scalable healthcare modules using Python, Django REST Framework, FastAPI, PostgreSQL, Redis, and Celery, improving workflows across medical inventory, EMR, and supply chain operations.
- Integrated national healthcare APIs, medical supply chain systems, ERP platforms, Solana RPCs, and payment gateways, reducing manual operational effort across client platforms.
- Managed GCP and AWS deployments, including Cloud Run, VPCs, schedulers, and CI/CD pipelines, improving deployment efficiency by nearly 30% and supporting high-availability environments.
- Spearheaded the Caribbean Airlines Refund Management System from the ground up using Python and Django REST Framework, delivering a secure backend for complex refund processing workflows.
- Architected a Solana blockchain marketplace using FastAPI, enabling secure buying, trading, and transaction processing through smart contract and blockchain integrations.
- Designed PostgreSQL schemas, optimized queries, and improved indexing strategies, reducing slow query execution by up to 35% in high-transaction backend modules.
- Built schedulers, data seeders, middleware, custom user models, management commands, and API test suites, improving automation, maintainability, and code reliability.
- Resolved production issues through profiling, debugging, caching, and refactoring, reducing recurring defects and improving system response times by approximately 25–30%.

TECHESTHETE
AI/ML & ETL Engineer

Lahore, Pakistan
Nov 2019 – Jun 2022

- Built ETL pipelines using AWS Lambda, Python, SQL, Pandas, and NumPy to transform Walmart, Instacart, and SQL Server data into Google BigQuery, reducing manual reporting effort by 40%.
- Optimized SQL queries and data transformation workflows, improving pipeline execution speed by up to 30% and enhancing analytics accuracy for reporting teams.
- Developed RESTful APIs using Django REST Framework to support internal tools, client applications, and structured backend data access.
- Implemented YOLO-based computer vision models for industrial fabric fault detection, improving defect identification efficiency and supporting automated quality inspection.
- Built regression and LSTM models using Keras, Pandas, NumPy, and Matplotlib to predict worker efficiency and generate data-driven workforce insights.
- Automated operational workflows and debugging tools, reducing repetitive manual tasks by 35% and improving engineering productivity.
- Conducted performance tuning, troubleshooting, and maintenance across backend services and data pipelines, reducing recurring system issues by 25%.

EDUCATION

- **LAHORE GARRISON UNIVERSITY, LGU**
Bachelors of Science in Computer Sciences, BSCS

Lahore, Pakistan
Oct 2015 – Oct 2019

- **UNIVERSITY OF ENGINEERING AND TECHNOLOGY, UET**
Masters of Science in Computer Sciences, MSCS

Lahore, Pakistan
Oct 2020 – Oct 2022