ABDUL REHMAN SOHAIL

Python Full-Stack Engineer (5+ years)
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SUMMARY

Python Full-Stack Engineer with 5+ years of experience shipping production systems in Django, DRF, and FastAPI, with frontend delivery in React.js and Vue.js/Nuxt. Currently the sole engineer behind three live platforms for a US-based client, handling everything from requirements to AWS deployment and production support. Built a production AI voice receptionist on the OpenAI Realtime API and an autonomous AI agent platform with MCP integrations, and raised an email platform's throughput from 5,000 to 12,000 emails per week. Takes over existing codebases quickly and delivers without supervision.

EDUCATION

BS Information Technology, The Islamia University of Bahawalpur *Feb 2018 – Feb 2022*
GPA: 3.32 / 4.00

SKILLS

Programming Languages	Python, HTML, CSS, JavaScript
Backend Frameworks	Django, Django Rest Framework (DRF), FastAPI
Frontend Frameworks	React.js, Vue.js, Nuxt
No-Code	Bubble.io, N8N
Databases	PostgreSQL, SQLite, Redis
Scheduler	Celery, Celery Beat, Cron Jobs
AI/ML	OpenAI, OpenAI Realtime API, Anthropic, ChromaDB, RAG, MCP
Version Control	Git, GitHub, BitBucket
Cloud / DevOps	Docker, Nginx, Gunicorn, AWS (EC2, Lightsail, RDS, S3, ECR, Lambda)
Tools	Jira, Trello, Notion, Linear

EXPERIENCE

Python Full-Stack Engineer *May 2026 – Present*
Byte i360 *Lahore*

- Took over as sole engineer for three production Django/DRF platforms (Flow, MSA, Tax Engine), owning backend, frontend, deployment, and support while working directly with the US-based client team from requirements through demo and release.
- Built the Product Listing module in Flow (React, Django/DRF), letting the team view, edit, and publish BigCommerce products to the client's other BigCommerce store from one place.
- Improved Flow performance by optimizing database queries, cutting redundant Deposco/BigCommerce API calls, introducing bulk processing, and tuning Celery task execution, which reduced API response times.
- Maintained Celery/Celery Beat pipelines that sync customers and push inventory updates to Deposco, and fetch each day's delivered orders nightly for MSA reporting.
- Led a full revamp of the MSA reporting system (Vue.js/Nuxt, Django/DRF) across frontend and backend: redesigned the UI, restructured the backend, and implemented new reporting logic and features with faster report generation.
- Managed deployments on AWS Lightsail, RDS, and S3, database migrations, Nginx/Gunicorn/Celery configuration, log analysis, and production debugging.
- Used AI-assisted development workflows to speed up implementation, independently reviewing, testing, and validating all code before production release.

Software Engineer *Apr 2025 – Apr 2026*
InvoZone *Lahore*

- Collaborated directly with clients, leading demos, sprint reviews, and providing production support.
- Gathered and documented requirements using Notion and Linear, ensuring alignment with client expectations.
- Designed and implemented new features, and maintained the existing codebase using Python, FastAPI, and AWS.
- Optimised system performance and API response times through code refactoring.
- Improved scalability and reliability of backend services to support growing user and data demands.
- Took ownership of critical modules from design through deployment, ensuring quality and timely delivery.
- Aligned technical solutions with stakeholder goals, balancing client needs with long-term product strategy.

Backend Engineer *Nov 2022 – March 2025*
Beyond Eris Solutions *Lahore*

- Responsible for developing and maintaining new and existing products using Python, Django and Django Rest Framework (DRF), following Agile methodologies.
- Collaborated with frontend developers to design and deliver required APIs.
- Introduced and promoted best practices for code quality, performance, and security across the development team.
- Participated in client meetings to gather requirements and convert them into working systems.
- Actively participated in project management, knowledge-sharing sessions, and staying updated with industry trends and technologies.
- Optimized system performance resulting in significant reduction in API response time.
- Worked closely with DevOps engineers to ensure system availability and smooth deployments.

Python / Django Developer *Feb 2021 – Oct 2022*
Enigmatix Pvt. Ltd. *Bahawalpur*

- Developed new and existing products using Django, DRF and Agile methodologies.
- Worked on multiple products built with Django, DRF, React Native and React.js as part of a cross-functional team.
- Managed projects and collaborated effectively using Agile practices to ensure timely deliveries.
- Collaborated with frontend developers to design and implement required APIs.
- Conducted and participated in Scrum ceremonies including sprint planning, stand-ups and retrospectives.

PROJECTS

- **AI Voice Assistant - InvoZone**
  Engineered a production AI voice receptionist for Brisbane Gateway Resort using OpenAI Realtime API, FastAPI, and WebSockets, handling full-duplex voice sessions with real-time tool calling, live transcript streaming, and sub-100ms interruption detection across mobile and desktop clients. Designed a device-aware audio pipeline with adaptive noise floor calibration and architected a "Smart Insertion" pattern to decouple spoken responses from UI content, enabling structured data injection. Applied prompt engineering techniques to enforce deterministic tool usage and improve response accuracy in real-world scenarios. Tuned server-side VAD for mobile and desktop environments and integrated ChromaDB to retrieve business-related information for consistent AI responses. Delivered a stable, production-ready system with reliable performance and strong end-user satisfaction.
- **Fastyr AI - Invozone**
  Autonomous AI agent platform. Worked as the sole backend engineer, collaborating with ML and frontend teams to deliver a secure and scalable MVP. Designed and developed REST APIs enabling domain-specific

agents (Finance, HR, Utilities) to execute tasks and interact with external systems. Overcame significant integration challenges with **Composio MCP servers** by analyzing and extending the underlying library despite minimal documentation, building a customized third-party integration layer. Implemented a secure authentication mechanism for AI model access, ensuring controlled agent interactions and data protection. Integrated external services like Gmail, Google Docs, Slack and Trello. Delivered a production-ready MVP.

- **Mailead - InvoZone**
  Email marketing platform built with Bubble.io, Python, FastAPI, AWS Lambda, ECR. Joined the project in its later stage, quickly gained understanding of the existing system, and delivered critical improvements. Optimized campaign scheduling to ensure emails were sent only within client-defined timeframes, increasing reliability of campaigns. Improved system throughput from 5,000 to 12,000 emails per week through code optimization and performance tuning. Independently identified and resolved a major security risk by securing exposed APIs lacking authentication, safeguarding user data. Responsible for deploying fixes and improvements on AWS.
- **Luxury Explorers ERP** - Beyond Eris Solutions
  Implemented a customized ERP for UAE-based businesses with modules for Accounting, Operations, HR, Leaves, Payroll and Permissions. Built REST APIs using Python and DRF. Streamlined leave management and payroll processes to ensure compliance with UAE regulations. Automated financial reporting and data analysis, reducing manual errors by 20%.
- **Washland** - Beyond Eris Solutions
  Developed customized financial reports and scalable API solutions for accounting processes. Implemented automated report generation, resolved system bottlenecks to reduce website load times, and implemented role-based permissions for improved security.
- **Etail** - Beyond Eris Solutions
  Designed scalable API solutions for accounting, implemented automated report generation and a role-based permissions system, and optimized website performance by resolving bottlenecks.
- **Booster Tech** - Beyond Eris Solutions
  Implemented an accounting solution (v2) with Spanish localization for a Spain-based client. Developed advanced reporting mechanisms and applied DRF-specific performance optimizations.
- **Growtal** - Enigmatix
  Built and maintained a freelance marketplace platform using DRF. Improved API response times, integrated email/social authentication, automated email verification via SendGrid and phone verification via Twilio, and streamlined user role assignment.
- **Passages** - Enigmatix
  Developed a cross-platform mobile app for memory sharing with media uploads, comments and notifications. Backend built with Django, DRF and PostgreSQL; integrated SendGrid for email verification and Stripe for payments; implemented event creation and member management features.
- **Al Hilal Academy** - Enigmatix
  Conducted client meetings and gathered requirements for new modules. Managed player registrations, team assignments, membership and inventory; generated invoices and performance reports; optimized codebase performance and customized Django Admin for better data management.

LEADERSHIP

- Led a team of 3 backend developers and mentored them.
- Trained 2 junior Python developers.

LANGUAGES

- English - **C1** (Advanced)
- Urdu