

Muhammad Farhan

Software Engineer

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Personal Statement

Experienced Python and Odoo Developer with over 7 years of hands-on expertise in designing, developing, and maintaining scalable backend systems, APIs, and data-driven applications, Specialising in Odoo ERP customisation, python automation, and business system integration. Proven track record of delivering clean, efficient Python code for enterprise solutions across healthcare, finance, and ERP domains. Strong understanding of software architecture, database design (PostgreSQL), and modern development practices including Agile and version control (Git). Skilled in integrating third-party services and building modular, maintainable systems using Python frameworks. Also proficient in customising and extending Odoo as part of broader backend responsibilities. Now based in the UK and seeking a full-time Python development role with a company that values clean architecture, collaboration, and innovation.

Work History

Senior Python & Odoo Developer – Dalba Group of Companies, Riyadh, Saudi Arabia (Remote)

(October 2020 – Present)

Achievements and responsibilities:

- Developed and customised Odoo modules using Python, automating workflows and improving business operations by 20%.
- Designed backend architecture including models, workflows, and business logic, enhancing performance and scalability by 25%.
- Integrated third-party APIs and custom add-ons, extending platform functionality across sales, HR, and finance.
- Upgraded Odoo versions with full module compatibility and minimal downtime, maintaining system stability.
- Optimised PostgreSQL databases, improving system stability and query performance by 40%.
- Led CI/CD implementation with Git and Docker, cutting deployment issues by 30% and accelerating delivery cycles.
- Developed modular Python micro services using Flask and FastAPI (project-based), designed for scalable and distributed deployment with CI/CD pipelines.
- Designed secure API endpoints with token-based access control, rate limiting, and audit logging, ensuring privacy and traceability of sensitive records.
- Simulated a blockchain-style tracking module that assigns unique, immutable digital IDs to transaction entries using hash-based integrity checks.
- Integrated RESTful and third-party APIs to enhance inter-system communication and reduce manual processes.
- Refactored legacy Python code for efficiency and maintainability, improving system performance and reducing technical debt.
- Conducted automated unit and integration testing, reducing bugs by 35% and supporting continuous delivery.
- Managed deployments on AWS, Alibaba Cloud, and DigitalOcean, optimising resource usage and reducing server costs.
- Conducted code reviews and mentored junior developers, upholding coding standards and best practices.

Tech Stack: Python, Flask, FastAPI, Pandas, NumPy, Pytest, Odoo(ORM/MVC/XML), JavaScript, PostgreSQL, SQL, REST APIs, GitHub, Git Flow, Docker, Linux, Nginx, CI/CD (GitHubActions, Jenkins), AWS (EC2, S3, API Gateway), DigitalOcean, Alibaba Cloud, Jira, Confluence, Agile/Scrum.

Achievements and responsibilities:

- Designed and deployed secure backend solutions for EHR, HRMS, and financial systems using Python, improving data processing and compliance.
- Developed backend architecture (models, workflows, business logic), enhancing system scalability and performance by 25%.
- Integrated third-party APIs to automate data exchange and extend system capabilities, reducing manual workload.
- Developed custom modules and backend features to automate business logic, resulting in higher system efficiency and reduced manual tasks.
- Built scalable backend infrastructure with robust version control (Git), cutting deployment issues by 30%.
- Implemented unit testing and CI workflows, significantly reducing bugs and improving release quality.
- Managed cloud deployments (AWS, Alibaba Cloud, DigitalOcean), tuning resources for better performance and cost-efficiency.
- Collaborated with cross-functional teams (QA, design, and product owners) to deliver high-quality features on time.
- Delivered projects under tight deadlines, achieving a 4.5/5 satisfaction score from stakeholders.
- Enhanced process automation by developing Odoo modules, improving operational efficiency across departments.

Tech Stack: Python, Flask, Pandas, NumPy, Odoo(ORM/MVC/XML), JavaScript, PostgreSQL, REST APIs, Git, Docker, Linux, Nginx, AWS, Alibaba Cloud CI/CD.

Software Developer – [Axiom World, Lahore, Pakistan](#)
(March 2018 – Oct 2019)

Achievements and responsibilities:

- Delivered end-to-end backend modules for HR, Sales, Inventory, and Education systems using Python, increasing operational automation.
- Designed and implemented scalable backend architectures and reusable Python modules, reducing repetitive code and accelerating feature delivery.
- Developed custom business logic and integrated third-party APIs, enabling seamless data exchange and improved user functionality.
- Led full project lifecycle from planning to deployment, ensuring timely delivery and alignment with business requirements.
- Standardised code practices and deployment processes, reducing post-release defects and improving long-term maintainability.
- Deployed and optimised cloud-hosted applications on AWS and DigitalOcean, enhancing performance and reducing server costs.
- Managed source code with Git, implementing effective branching strategies (Git Flow) for streamlined collaboration and releases.
- Collaborated with UI/UX designers, QA engineers, and stakeholders to build features that improved user experience and adoption rates.
- Provided Level 2 technical support, increasing system uptime and improving customer satisfaction by 30%.
- Analysed user feedback to refine software functionality and address pain points, contributing to increased platform adoption.

Tech Stack: Python, REST APIs, PostgreSQL, Odoo(ORM/MVC/XML), Git, AWS, DigitalOcean, Linux, Docker, Agile, Git Flow.

Key Skills

- **Python Programming:** clean, scalable, production-grade code
- **Odoo ERP Development:** custom modules, workflows, reports
- **Backend Development:** Python, Flask, FastAPI, RESTful APIs, business logic, database design
- **System Integration:** third-party APIs, payment gateways, external systems
- **Data Handling:** Pandas, NumPy, JSON, CSV processing, API data integration
- **Database Management:** PostgreSQL & SQL schema design, performance tuning, queries, optimisation, backup/restore
- **Version Control:** Git, GitHub/GitLab workflows, GitHub Actions
- **Cloud & Deployment:** AWS (Lambda, EC2, S3), DigitalOcean, Linux server setup, Nginx
- **Docker & Deployment:** docker, containers, staging, CI/CD pipelines
- **Testing & Quality:** Unit testing(Pytest), code reviews, debugging
- **Troubleshooting & Debugging:** logs, test cases, critical issue resolution
- **Team Support & Mentoring:** code reviews, onboarding junior devs
- **Technical Documentation:** functional specs, user guides, developer notes
- **Agile & Scrum Methodologies:** sprints planning, stand-ups, retrospectives, task estimation, team collaboration

Education

October 2019

BSc (Hons) Software Engineering | [Virtual University of Pakistan](#)

Certifications

Data analysis with python - [IBM](#)

Working with Version Control - [University of Leeds](#)

An Introduction to Cryptography - [University of Leeds](#)

Agile Project Management - [Google](#)

Professional Highlights

- **7+ Years of Hands-on Odoo Development:** Successfully delivered end-to-end Odoo solutions, including custom module development, backend logic, workflow automation, and third-party integrations across multiple industries (healthcare, logistics, manufacturing).
- **Led Full Odoo Implementations:** Spearheaded several Odoo ERP rollouts from requirement gathering to post-deployment support, reducing manual workload by up to 40% and improving operational efficiency.
- **Custom Module Development & API Integration:** Built and maintained over 50+ custom Odoo modules, integrated REST APIs with third-party platforms (e.g., payment gateways, inventory systems, CRM), and enhanced user experience through tailored workflows.
- **Performance Optimisation & Upgrade Expertise:** Managed complex database migrations and upgraded legacy Odoo systems to newer versions (v12 to v16+), improving speed and reliability while maintaining data integrity.
- **Cross-Functional Team Collaboration:** Worked closely with business analysts, project managers, and stakeholders to translate business needs into scalable technical solutions within Agile environments.
- **Cloud Deployment & DevOps:** Deployed Odoo applications on AWS, DigitalOcean, and Alibaba Cloud, using Docker and CI/CD pipelines (GitHub Actions) for efficient development and delivery.
- **Client-Facing & Support Experience:** Provided technical leadership, client demos, post-go-live training, and ongoing support, earning high satisfaction feedback from clients and end users.