

MOHAMMED FARHAN K C

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PROFESSIONAL SUMMARY

Versatile Python Full-Stack Developer with more than 3 years of professional experience in building scalable web and mobile applications using Python, FastAPI, Django, Flask, Odoo, and Node.js. Experienced with frontend frameworks including React and Flutter. Skilled in PostgreSQL, MongoDB, Docker, Git, and collaborative development. Passionate about delivering high-quality, end-to-end software solutions.

WORK EXPERIENCE

AST SOLUTIONS LLC

AL QUSAIS, DUBAI | REMOTE | MAR 2023 - PRESENT

Python Developer

- Led the development and customization of **Odoo-based ERP modules**, streamlining key business operations across multiple departments.
- Designed and implemented **RESTful APIs** using **FastAPI** and **Django**, ensuring secure, scalable, and high-performance backend services.
- Optimized **PostgreSQL** and **MongoDB** databases through efficient schema design, indexing, and query tuning, improving overall system performance.
- Collaborated with frontend teams to integrate **Flutter** applications with backend APIs, enabling seamless web and mobile experiences.
- Containerized applications and automated deployments using **Docker**, enhancing development efficiency and environment consistency.
- Implemented unit testing using **Pytest** and **Odoo's built-in test framework**, ensuring code quality, reliability, and early detection of regressions.
- Contributed to **code reviews**, **documentation**, and **version control** workflows, maintaining project scalability and adherence to coding standards.
- Recognized as **"Best Performer – 2025"** for consistently demonstrating technical excellence, problem-solving expertise, and a strong commitment to delivering high-impact, production-ready applications.

Quest Innovative Solutions

KANNUR, KERALA, IN | JUNE 2022 – JAN 2023

Python Full Stack Developer Intern

- Developed responsive web applications using **Django** and **Flask**, adhering to modern UI/UX design principles.
- Built and maintained **RESTful APIs** using **Django REST Framework (DRF)** and **Flask-RESTful**, enabling efficient client-server communication.
- Enhanced application performance through **code refactoring**, **debugging**, and **query tuning**, resulting in smoother user experiences.
- Implemented **automated unit tests** with **pytest** and **unittest**, improving overall test coverage and ensuring reliable feature releases.
- Designed **authentication** and **session management** modules, reinforcing security and reusability across multiple projects.

EDUCATION

JAMIA HAMDARD, DELHI UNIVERSITY

2019 - 2022

Bachelor of Computer Application

PROJECTS

D2D WATER DISTRIBUTION (Odoo 12 & 16)

Dubai | Onsite

- Executed a complete migration of both codebase and data from **Odoo 12** to **Odoo 16**, ensuring system integrity, data consistency, and seamless operational transition.
- Developed **RESTful APIs** to integrate a **salesman mobile application** with the backend for real-time **order, delivery, and payment synchronization**.
- Implemented **Google Maps** integration for **vehicle tracking**, enabling **real-time route visualization, distance calculation between customer and vehicle, and smart vehicle assignment** for customer care requests.
- Integrated **Google Documents OCR** to automatically **extract data from PDF invoices** and **generate vendor bills**, significantly reducing manual entry time and errors.

ATLAL Driving Institute (Odoo 18)

Dubai | Remote

- Designed and implemented a customized **Odoo 18** ERP solution to streamline **driving institute operations**, covering student, instructor, and administrative workflows.
- Automated key processes such as **student registration, class scheduling, and fee management**, improving operational efficiency and user satisfaction.
- Developed **reporting and analytics dashboards** to monitor **student performance, instructor productivity, and financial transactions** in real time.
- Optimized system architecture and database queries to enhance **scalability, speed, and regulatory compliance**, supporting the institute's operational growth.

PERSONAL PROJECTS

odoo-rest-api — Open Source Python Library (PyPI)

Github: https://github.com/mdfarhankc/odoo_rest_api

- Designed and published a decorator-based **REST API framework for Odoo**, enabling developers to build APIs with a **FastAPI-like** developer experience.
- Implemented **decorator-based routing** (`@api.get`, `@api.post`, etc.), **dynamic controller generation**, and **automatic request parsing** using Python introspection.
- Built **standardized JSON** response handling and **exception** mapping for **consistent API behavior** across endpoints.
- Developed **automatic serialization** for **Odoo ORM recordsets**, safely converting **database records** into **JSON responses**.
- Integrated **OpenAPI 3.0 generation** with interactive **Swagger UI (/docs)** for automatically generated **API documentation**.
- Packaged and distributed the library via **PyPI** using modern Python packaging standards (`pyproject.toml`) and **semantic versioning**.

CHATSEEK AI CHATBOT

Github: <https://github.com/mdfarhankc/ChatSeekAI>

- Built a complete production-ready chatbot platform using **FastAPI, React, TypeScript, and PostgreSQL** with **clean architecture (SOLID, repository pattern, service layer)**.
- Integrated **Ollama LLM** for real-time streaming responses with fallback + retry logic for reliability.
- Implemented secure **JWT authentication with refresh tokens**, role-based access, and session management.
- Created a modern UI using Shadcn UI, featuring a collapsible sidebar, message threading, markdown rendering, and **syntax highlighting for multiple languages**.
- Designed **modular APIs, WebSocket-based streaming**, and deployed via **Docker Compose**, enabling **reproducible and scalable** environments.

SKILLS

- **Backend** – Python (Django, FastAPI, Flask, Odoo), NodeJS (ExpressJS)
- **Frontend** – ReactJS, Flutter
- **Databases** – PostgreSQL, MySQL, MongoDB, Redis
- **Technologies/Platforms** – Docker, Git
- **Third-Party Integrations** – Whatsapp Cloud, Twilio, Google Documents OCR
- **Areas of Interest** – Backend Development, Web Development, Mobile App Development

LANGUAGES

- **Malayalam** - Native
- **English** - Full Professional Proficiency
- **Hindi** - Professional Working Proficiency