



MOHAMMED AJMAL PK

SOFTWARE ENGINEER - PYTHON

CONTACT

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- Kerala, India

SKILLS

- Python** - Passionate about leveraging Python for backend development, automation, and AI-driven solutions.
- FastAPI** - Skilled in building high-performance, async-driven RESTful APIs.
- Django** - Experienced in developing scalable, secure, and robust web applications using Django and Django ORM.
- Databases (PostgreSQL, MySQL)** - Expertise in designing, optimizing, and managing relational databases for high availability and performance.
- ORM Technologies (SQLAlchemy, Django ORM)** - Proficient in working with ORM tools for seamless database interactions.
- RESTful API Development** - Experienced in creating RESTful APIs that efficiently integrate with frontend frameworks like Flutter and React.
- AIML** - Hands-on experience with LLMs, RAG, and LangChain to build production-level intelligent QA chatbots with vector search, tool orchestration, and external API integrations. Exploring AI-driven solutions for medical diagnosis, food ingredient analysis, and real-time information retrieval.
- Mobile App Development (Flutter)** - Building cross-platform mobile apps with Flutter.
- Caching & Performance (Exploring: Redis)** - Exploring with caching strategies for faster, scalable applications.
- DevOps & Cloud (Learning)** - Docker for containerization and GitHub Actions for CI/CD.
- Frontend Basics (HTML, CSS)** - Familiar with UI structure and styling.

EDUCATION

- Btech Information Technology**
Government Engineering College Idukki
Kerala st, India.
2015 - 2019
CGPA: 7.0

ABOUT ME

I am a Software Engineer and Backend Developer with over 5 years of experience in Python technologies, specializing in FastAPI, Django Rest Framework (DRF), and Django. I design and develop scalable RESTful APIs that integrate efficiently with frontend frameworks like Flutter and React, while optimizing database performance with PostgreSQL, MySQL, and Redis. I also build cross-platform mobile applications using Flutter. Passionate about AI and Large Language Models (LLMs), I have hands-on experience with LLMs, RAG, and LangChain for developing chatbots and AI-powered prototypes, leveraging technology to drive innovation and digital transformation.

WORK EXPERIENCE

SOFTWARE ENGINEER - PYTHON

SEP 2023 - present

SIRAJUL HUDA EDUCATIONAL COMPLEX, Calicut

Led the digital transformation of an educational institution by centralizing operations through a unified platform. Designed and developed a scalable Flutter-based mobile application integrated with a FastAPI backend, deploying core modules on AWS EC2 for optimized performance. Streamlined administrative and academic workflows, enhancing operational efficiency.

Developed and deployed a wide range of RESTful APIs to facilitate digitalization across multiple domains, including:

- Education Management Systems:** Student attendance, leave requests, migration, ID card systems, and student movement tracking.
- Financial & Payment Systems:** Student fees, donations, payment gateway integrations, and structured fee management.
- Institutional & Administrative Operations:** Staff management, user authentication with OTP, app user permissions, ERP systems, and deep-link integrations.
- Inventory & Resource Management:** Stock management with receipt features, laundry management, and rent/agriculture receipts.
- Engagement & Support Services:** APIs for news, galleries, career portals, meeting registrations, and promotional activities.
- Automation & Scheduling:** Cron jobs for automated tasks and report generation.

Ensured seamless integrations and system scalability while maintaining security and efficiency, driving digital adoption across the institution.

SELF-EMPLOYED SOFTWARE ENGINEER

MAY 2022 - SEP 2023

Developed and deployed multiple Flutter-based mobile applications, seamlessly integrated with Django Rest Framework. Optimized performance by configuring Nginx, Gunicorn, and Supervisor on an Ubuntu-powered AWS EC2 instance, ensuring efficient application management and scalability.

SOFTWARE ENGINEER - PYTHON

OCT 2020 - APR 2022

Stackgenie Consulting Pvt Ltd, Trivandrum

Developed Python-based chatbots integrating AWS and Azure with Slack and Microsoft Teams to deliver real-time cloud infrastructure snapshots. Designed and implemented an interactive dashboard for Prowler, an AWS security assessment tool, using Plotly for intuitive data visualization. The dashboard streamlined security analysis by highlighting vulnerabilities, compliance risks, and misconfigurations, enabling efficient remediation and adherence to AWS security best practices.