

Abdul Samad

Python Full Stack Developer

+91 7356860792 | abdulsamad52556@gmail.com | LinkedIn | GitHub | Leetcode | Portfolio

Profile Summary

Self-taught Python developer with a strong passion for technology and a commitment to excellence in software development. Skilled in Python and experienced in building robust, innovative solutions across various domains. Eager to bring my problem-solving abilities and technical expertise to impactful projects in a professional setting, contributing fresh ideas and driving results through high-quality code and collaborative teamwork.

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, Java, C
- **Frameworks and Libraries:** Django, Flask, Next.js, React, Tailwind CSS
- **Microservices and Containers:** Docker, Kubernetes, RabbitMQ, Helm
- **Tools and Platforms:** Git, Vercel, AWS EC2, AWS S3, AWS Lightsail, DigitalOcean, Azure Kubernetes Service (AKS)
- **Databases:** MySQL, MongoDB
- **Design and Prototyping:** Figma, Blender
- **Additional Skills:** Data Structures, SQLAlchemy, Nginx, Axios, Gunicorn, Postman, Socket.IO, Simple JWT

Experience

Inticure: International Doctor Booking Application

[Live Link](#)

Developed a comprehensive, multi-role telemedicine application enabling international doctor consultations, integrating advanced scheduling, automated communications, and tailored service options.

- **Architecture and Services:** Built a **microservices** architecture with **Django** for the backend and **Flask** for role-specific services.
- **Dynamic Consultation System:** Created a flexible system with adjustable consultation durations, pricing, and session types (individual, couple).
- **Escalation and Referral Management:** Implemented a workflow for escalating junior doctor consultations to specialists and automated prescription generation with secure email delivery.
- **Meeting Management:** Automated **Google Meet link** generation and email delivery, ensuring seamless scheduling and time zone synchronization for meetings.
- **Database Management:** Used **MySQL** to manage and store user data, appointments, doctor schedules, and pricing details efficiently.
- **Frontend Development:** Developed an engaging, user-friendly homepage using **React** to provide a responsive and accessible entry point for new and returning users.
- **Deployment and DevOps:** Deployed the application on **DigitalOcean** using **Docker** for containerization, simplifying scaling and maintenance. Configured server environments for optimized performance, ensuring a stable, secure, and scalable deployment.

Projects

CabQuest: Taxi Service Application

[Live Link](#) | [GitHub](#)

Developed a robust taxi service application enabling users to search, book rides, and choose from multiple cab categories based on their preferences.

- **Microservices Architecture:** Designed a **microservices** architecture using **Flask**, providing a modular and scalable solution to meet complex requirements.
- **Frontend Development:** Built an intuitive, responsive user interface with **React**, **Next.js**, and **Tailwind CSS**, ensuring a smooth user experience for ride search and booking.
- **Real-Time Mapping and Navigation:** Integrated **Google Maps API** for location tracking, live navigation, and

accurate route display, enhancing the application's usability.

- **Data Management:** Used **MySQL** for structured data storage, handling user profiles, ride history, and booking preferences efficiently.
- **Real-Time Communication:** Implemented real-time chat with **Socket.IO**, allowing seamless communication between drivers and passengers.
- **Inter-Service Communication:** Leveraged **RabbitMQ** for reliable data transfer across services, supporting smooth booking submissions and updates.
- **Deployment and Scalability:** Containerized the application with **Docker** for consistent, environment-agnostic deployments. Deployed on **Microsoft Azure**, utilizing **Kubernetes** and **Helm** for high scalability, reliability, and security across different environments.

AudSculpt: E-Commerce Platform

[Live Link](#) | [GitHub](#)

Developed a comprehensive e-commerce platform for electronics, focusing on user convenience, robust backend functionality, and secure transactions.

- **Feature Development:** Built essential features, including cart management, wishlist, coupons, and product variants to enhance the shopping experience.
- **Payment Integration:** Integrated **Razorpay** for secure and efficient payment processing, ensuring a seamless checkout process.
- **Database Management:** Leveraged **MySQL** for structured data management, optimizing the storage and retrieval of product and user information.
- **Admin Interface:** Designed an intuitive admin dashboard for streamlined management of products, orders, and customer data.
- **Deployment and Hosting:** Deployed on AWS with **NGINX** for configuration, achieving a reliable and scalable platform with a personalized domain.

Mini Projects

CRM Tool

[GitHub](#)

Built a Customer Relationship Management (CRM) tool using **React** for the frontend and **Django** for the backend, designed to streamline client interactions, track sales, and manage customer data efficiently.

User Blog

[GitHub](#)

Developed a user blog platform where users can add posts with descriptions and reorder them using a drag-and-drop feature. Built with **React** (using React DnD for drag-and-drop functionality) and **Django** for the backend.

Task Management

[GitHub](#)

Created a task management app where users can create, edit, delete, and update tasks in real time. Utilized **Django Channels** and **WebSockets** for real-time task updates.

Education

Python Full Stack Development

2023 - 2024

Brototype, Trivandrum, Kerala

Industrial Training Institute (ITI)

2018 - 2020

Trivandrum, Kerala