

Rahul Rajeev

Python Full Stack Developer

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PROFILE SUMMARY

Full-stack developer specializing in Python backend frameworks (Django, DRF, Flask, FastAPI) with extensive experience in building scalable web applications and RESTful APIs. Proficient in both server-side and client-side rendering, leveraging modern frontend technologies including React, Tailwind CSS, and Bootstrap to deliver high-performance, seamless user experiences through comprehensive development solutions.

SKILLS

Back-End Development: Django, Django REST Framework, Fast API, Flask

Front-End Development: React, Redux, HTML, CSS, Bootstrap, JQuery, Tailwind CSS

Cloud Services: AWS Lambda, AWS EC2, Firebase Realtime Database

Database: PostgreSQL, MongoDB, FireBase

Programming Languages: Python, JavaScript, C, Java

Tools: Git, GitHub, Postman, Docker

Technologies Worked With: Django Channels, Celery, Redis, SQLAlchemy, Streamlit, Axios, Nginx, Certbot, Cloudflare, Unicorn, Daphne, Postman, CI/CD pipelines, JWT, DSA, Docker, MQTT, Node-RED, EMQX, Paho Python, HomeKit, Alexa Smart Home Skill, OpenAI API, Razorpay, Google OAuth 2.0, Stripe, ZEGOCLOUD SDK, Gemini API, Clouinary, smart home protocols

COMPANY PROJECTS

Company Website Maintenance

- Maintained and enhanced the company website, ensuring high availability, updated content, and responsive design using **HTML**, **CSS**, and **JavaScript**, while collaborating with the digital marketing team to make it SEO-friendly.

Company Workspace Management Platform (CRM)

- Developed a scalable web platform to manage internal data, client interactions, and workflows, integrating complex business logic (leads, HR, sales), data visualization, and real-time updates via **Firebase**, using **React**, **Tailwind CSS**, and **Django/Flask**.

Custom Company AI Bot

- Designed and implemented a custom AI bot for internal use, with backend powered by **FastAPI**, **Firebase**, and the **OpenAI Assistant API**.
- Integrated **React** for the frontend, incorporating **Azure Speech JS** library for text-to-speech and speech-to-text, along with **Porcupine** wake word detection for hands-free interaction.

IoT and Automation Projects

- Developed IoT solutions for controlling devices like gates, lights, fans, and curtains via mobile and Alexa, with scheduling using cron tasks and Python scripts for automation.
- Backend built with **Django, Flask, FastAPI**, and **AWS Lambda**, utilizing **Paho MQTT, EMQX**, and **Mosquitto Broker** for seamless device control and real-time communication.
- Created **Alexa Smart Home Skills** for voice-activated control and integrated with **Cloudflare** for domain management and security.
- Managed **AWS EC2 instances, AWS Lambda**, and **AWS MQTT brokers** for scalable infrastructure, along with **Cloudflare** for optimized domain and DNS management.

EXPERIENCE

Python Full Stack Developer

August 2024 - December 2024

Onwords Smart Solutions, Chinniyampalayam, Coimbatore

- Worked on full-stack development with **Python** (Django, Flask, FastAPI) for backend and **React, Tailwind, Bootstrap, HTML, CSS, JS** for frontend, handling development, deployment, monitoring, and updates on **AWS, Cloudflare, Git**.
- Developed IoT solutions for smart home and gate automation, building backend services, APIs, and MQTT-based device control, while integrating Alexa Smart Home Skills for seamless voice-enabled operation.

PROJECTS

TeamStudy - Communication Platform

 [GitHub](#)

A team management platform similar to Slack, built with **React** and **Django Rest Framework**. It features real-time chat, video/audio calls, and multimedia sharing.

- Integrated **JWT Authentication, Google OAuth, Django Channels**, and **WebSocket**.
- Added video/audio conferencing with **ZEGOCLOUD SDK** and payment integration via **Stripe**.
- Integrated chatbot using **Gemini API**.

Cellular - E-Commerce Platform

 [GitHub](#)

An e-commerce platform for smartphones built with **Django**, featuring a product catalog, shopping cart, and secure payment options.

- Implemented **PostgreSQL, AWS EC2**, and **Razorpay** integration.
- Enabled user authentication, offers, and order processing.

EDUCATION

BCA - Bachelor of Computer Applications.

2025 - 2028

Indira Gandhi National Open University (IGNOU), New Delhi

Python Full Stack Development

2023 - 2024

Brototype, Ernakulam

High Secondary - Computer Science

2021 - 2023

St. Ephrem Seminary Public School, Vettickal, Ernakulam