

# JOB S S

Backend Engineer | Python • FastAPI • Django • Real-Time Systems

Kochi, Kerala, India (Open to Relocation)

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[GitHub](#) • [LinkedIn](#) • [Portfolio](#)

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## ABOUT ME

I'm a backend-focused Python developer with **2+ years of hands-on experience** building real-world applications used in production.

I specialize in **FastAPI, Django, REST APIs, WebSockets, and database-driven systems**, with practical exposure to **ML integrations and real-time communication**.

I enjoy designing **clean APIs**, optimizing performance, and collaborating across frontend and AI teams to ship complete solutions.

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## WHAT I DO BEST

- Design scalable **REST & async APIs**
  - Build **real-time systems** using WebSockets
  - Optimize databases & backend performance
  - Integrate **ML models** into production apps
  - Collaborate with frontend & AI engineers
  - Write clean, maintainable backend code
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## CORE TECHNOLOGIES

### Backend

Python, FastAPI, Django, Django REST Framework, Flask

### Frontend (Working Knowledge)

Angular, React, HTML, CSS, Bootstrap

### Databases

PostgreSQL, SQLite, MongoDB  
(SQLAlchemy, Django ORM)

## Real-Time & Async

WebSockets, Django Channels, Socket.IO

## ML & Data

Pandas, NumPy, Scikit-learn, Matplotlib

## Tools

Git, GitHub, Redis (basic), Pytest, CI/CD (basic)

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# FEATURED PROJECTS

## Kardia – Heart Attack Prediction System

**Tech:** Flask, ML Models, REST API

- Built backend APIs to serve ML predictions to a Flutter mobile app
- Implemented AJAX-based prediction flow with real-time responses
- Focused on clean API contracts and model integration

## E-Learning Platform

**Tech:** Django, React, PostgreSQL

- Developed modules for courses, assessments, learning journeys, and leaderboards
- Implemented **Microsoft SSO**, customizing social-auth behavior
- Optimized video delivery using **M3U8 chunk streaming**
- Built bulk data-upload scripts for large content imports

## 3DVix – AI Chatbot for 3D E-Commerce

**Tech:** Django, WebSockets, AI Integration

- Integrated an AI chatbot directly into product pages
- Designed **real-time chat streaming** using Django Channels
- Stored chat history and used the last 5 messages for better AI context
- Collaborated closely with AI engineers on model feedback loops

## Cadio – CRM System

**Tech:** Django, REST APIs

- Built lead lifecycle workflows: Lead → Opportunity → Quotation → Won
- Implemented ownership transfers and team target tracking
- Ensured smooth sales pipeline transitions with backend validations

## PMTool – Internal Project Management Tool

**Tech:** Django, REST APIs

- Designed APIs for projects, stories, and task management
  - Implemented automated due-date reminders
  - Enabled external client collaboration inside internal projects
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## PERSONAL & SIDE PROJECTS

### Personal Blog Platform (*In Progress*)

**Tech:** FastAPI + Next.js

- Clean API design with SEO-friendly frontend pages
- Focus on content workflow and performance
- GitHub: Backend | Frontend

### Live Chat Application

**Tech:** MERN Stack, Socket.IO

- End-to-end real-time chat system
- Message history stored and retrieved via REST APIs
- Designed for fast, scalable communication
- GitHub: Backend | Frontend | Demo

### Job Portal Website

**Tech:** Angular, FastAPI, SQLite

- Separate employer and candidate workflows
  - Job posting, searching, and application flows
  - GitHub: Frontend | Backend
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## PROFESSIONAL EXPERIENCE

### Software Engineer

**Senscript Technologies** (*May 2024 – Present*)

- Backend development using Django, FastAPI, and Flask

- Real-time communication with WebSockets
- Performance optimization and caching strategies
- Cross-team collaboration with frontend and AI developers

## Python Programmer / Data Scientist

**Mentor Thesis** (*Mar 2023 – Apr 2024*)

- Built ML-based applications deployed with Streamlit & Tkinter
  - Worked on recommendation systems, NLP, and predictive models
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## CERTIFICATIONS

- Oracle Cloud Infrastructure – **AI Foundations Associate (2025)**
  - Python Full Stack Developer – Inmakes Infotech
  - HackerRank: Python, Problem Solving (Basic)
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## EDUCATION

**B.Sc. Mathematics**

NACCAS, Kanyakumari

**CGPA:** 8.98 / 10