

Ayananth TS

Python Fullstack Developer

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SUMMARY

Python Software Engineer with 1 year of experience in full-stack development using Python and modern web technologies, along with 2 years of experience as a Remote Sensing Engineer working on geospatial data and applications.

PROGRAMMING SKILLS

Programming & Frameworks — Python, Django, Django REST Framework | JavaScript, React,
Database — SQL (MSSQL, PostgreSQL) | NoSQL (DynamoDB), **Cloud & DevOps** — AWS (Lambda, S3, EC2, RDS) | Docker | Git

OPEN SOURCE CONTRIBUTION

Activist 🌐, Contributor 03/2026

- Merged PR #2004 : Splits the existing frontend and backend CI workflows into separate static analysis and test workflows so they can run independently and provide faster feedback. 🌐
- Merged PR #2010 : migrate assigned dev seed data from JSON to YAML 🌐
- Merged PR #2016 : Prioritize Activist organization first on /organizations in development mode 🌐
- Merged PR #1951 : fixed auth autofill UI issues in Nuxt-based auth screens. 🌐

PROJECTS

Brototype, Software Engineering Upskilling Program 01/2025 – Present

AI-Integrated Job Portal Platform — Django REST Framework | React | AI | Vector Database | PostgreSQL | Docker

- Built a full-stack job platform using **Django REST + React** with AI-powered semantic search using vector embeddings.
- Implemented **RBAC, JWT auth, WebSockets (real-time chat), and payment integration (Razorpay)**.
- Used **Celery + Redis** for background jobs and Docker for deployment.

TiffinTrack — Subscription-Based Food Ordering Platform

- Built a subscription-based food ordering system using **Django + PostgreSQL**.
- Designed multi-role architecture and implemented **GeoDjango + PostGIS** for location-based search.
- Deployed on **AWS EC2**.

PROFESSIONAL EXPERIENCE

Travancore Analytics, *Software Engineer - GIS*

07/2022 – 10/2024

Technopark, Trivandrum

- Optimized a high-volume data processing system (~1M+ events/day), redesigning workflows and improving performance by **45× (45 min → <1 min)** using Python and AWS serverless architecture.
- Built a Django-based system to **automate clustering of 1000+ daily crash reports** using DBSCAN, improving issue tracking and analysis.
- Developed backend features for analytics dashboards, alerts, and reporting; used **PostgreSQL, Celery, and Docker** for scalable processing.
- Contributed to cloud migration and system redesign using **AWS (Lambda, DynamoDB, Redis)**.
- Worked on geospatial and remote sensing applications, contributing to development and data handling in GIS-based systems.

EDUCATION

Technopark, IIITM-K, *Master of Science in Computer*

2020 – 2022 | Trivandrum

Science with Geospatial Analytics

Relevant Academic Project: Spatial Prediction of Soil Nutrients Using Deep Learning Predicting soil nutrient levels using remote sensing data and artificial neural networks to support agricultural decision-making.

IHRD College, *Bachelor of Science in Computer Science*

2017 – 2020 | Thrissur