

Vinayak Av

Trivandrum, India | +91 9895625882 | vinayakav666@gmail.com | [github](#) | [linkedin](#) | [Portfolio](#)

CAREER SUMMARY

Python & Gen AI developer with 3 years of experience building fast, secure, and scalable systems. Skilled in designing REST APIs with Django and FastAPI, automating workflows with Python/Bash, and engineering reliable data pipelines. Proficient in Elastic Search ,PostgreSQL/MySQL, cloud platforms (AWS, GCP), and containerized environments with Docker and Kubernetes. Recently focused on integrating and fine-tuning Generative AI solutions to deliver practical, production-ready applications. Passionate about shipping clean, efficient code and backend systems that developers trust and users never notice — because they just work.

SKILLS

Web & Software Development	:Python, JavaScript, Bash, Django, FastAPI, Flask, Kafka, Celery,Temporal
Database Technologies & Tools	PostgreSQL, MySQL, Supabase, Redis, PostGIS, Elasticsearch, GeoServer
Cloud & DevOps	: AWS , GCP, Runpod, Docker, Kubernetes, Linux, Git, Nginx,Caddy, Github actions

WORK EXPERIENCE

DifferentByte | Senior Python Developer

Jul 2024 – Present

- Led Backend team of the start up
- Developed scalable secure backends using fastapi, postgres and docker and deployed in aws.
- Hand's on experience with workflow engines Temporal various cloud tools including S3, Lambda, EC2, CI/CD
- Mentored and guided junior developers through code reviews and pair programming, fostering a culture of learning and professional growth.
- Integrate GEN ai solutions with backend including deploying LLM s in runpod,open router to collaborate AI team and integrate automations to backend system
- Server management with CI cd setup with github workflows

UL Technology Solutions | Developer Analyst

Oct 2023 – Mar 2025

- Led a backend team in developing a large-scale data analysis platform, improving data interpretation capabilities for clients.
- Collaborated with the UI/UX team to create a more intuitive user interface, resulting in a 15% increase in customer satisfaction
- Conducted extensive code reviews and optimizations, ensuring robust and scalable software solutions.
- Spearheaded the integration of GIS-based technologies, facilitating more flexible and secure data management for clients

PROJECTS

ByteFlow | [byteflow.bot](#)

- Led backend development as Technical Lead, architecting a fully asynchronous FastAPI-based system to deliver high-performance, scalable APIs.
- Integrated advanced GenAI solutions and real-time communication using **Socket.IO**, enabling intelligent, dynamic interactions within the application.

- Designed and implemented multiple data extraction pipelines for images, PDFs, and documents, enhancing automation and accuracy of content processing.
- Orchestrated database management, server optimization, and automated deployments, while enabling workflow automation through **Temporal** integration.

Course Connect

- Led backend development in **Django**, designing the system architecture and database schema to support scalable course discovery and applications.
- Integrated **Elasticsearch** for powerful search and filtering, enabling students to efficiently explore courses and institutions
- Set up **CI/CD pipelines** with GitHub Actions for automated deployments to AWS EC2 and Elasticsearch clusters.
- Connected the platform with **Supabase for real-time events** and **Firebase for push notifications**, ensuring seamless, timely user engagement
- Acted as **Technical Lead**, collaborating directly with clients to gather requirements, define solutions, and guide the development team toward successful delivery.

Drishti- Intelligent Property Management System

- Orchestrated Drishti by utilizing cutting edge **GIS** technologies for precise asset and property mapping, improving operational efficiency by 40% and accelerating decision-making
- Handled large datasets and provided GIS based information integration for improved user interface
- Pioneered the adoption of Python 3.21 features within the team, leading to a 20% improvement in code maintainability and future-proofing the application suite

EDUCATION

Masters in Computer Applications (Specialization: Cybersecurity)

Pursuing, 2024-2026

Bachelors of Statistics

2018-2021

AWARDS AND CERTIFICATES

- Python developer by Hacker rank
- Python-Web Development Expert (by NCTT)
- Oracle certified cloud foundations associate by Oracle
- Oracle certified AI associate by Oracle
- GCP Cloud SQL for MYSQL by Coursera
- GCP Fundamentals Core Infrastructure by Coursera
- Cloud Virtualization, Containers and APIs by Duke university coursera
- Cyber security breach case studies by IBM coursera
- Defensive Python by Infosec coursera
- Introduction to AI & ML in google cloud by Google coursera

LANGUAGES

- English, Malayalam, Hindi ,Tamil