Akhilesh M T

♥ Bangalore, India ■ akhileshthykkat843@gmail.com
♥ github.com/akhileshthykkat
in linkedin.com/in/akhilesh-m-t

Summary

I am a backend engineer passionate about designing and developing scalable systems. With a focus on automating processes, I leverage the latest technologies to create reliable and efficient backend solutions.

Technical Skills

- Programming Languages: Python, JavaScript
- Frameworks and Tools: FastAPI, Express.js, Docker, RabbitMQ, Celery, Pandas
- Databases: PostgreSQL, SQLite, MongoDB
- Cloud Services: Virtual Machines, Linux, Serverless Architectures

Professional Experience

Backend Engineer, Trigeminal AI Bangalore, India

Jan 2024 – Present

- Developed and maintained backend systems for processing large-scale medical images, efficiently managing 100+ daily image uploads (each 700MB).
- Integrated Redis to support real-time notifications as offline cache and optimized backend performance, reducing server load by 30%.
- Automated and streamlined image upload pipelines using Celery and Watchdog, reducing manual intervention by 50%.
- Integrated open-source image servers like OHIF and OpenSeaDragon to handle various medical imaging formats seamlessly.

Projects

- Medical Image Management System: Built a robust backend system for processing and storing medical images, improving workflow efficiency by handling daily uploads of large image files.
- Sales Forecasting Tool: Developed a predictive analytics system to forecast product demand based on historical sales data, optimizing inventory management.
- **Digital Asset Management Platform:** Designed a scalable platform for managing and retrieving digital assets efficiently.
- Lab Information Management System: Integrated CRM functionalities into a lab information system to streamline patient data and sample tracking.
- Automated Image Upload Service: Created an automated image upload pipeline, reducing developer workload by 50% and improving system scalability with Docker and Celery.
- FastAPI Hosting Utility: Developed a command-line tool to deploy FastAPI applications using systemd, NG-INX, and SSL for secure, scalable hosting.

Education

B.Tech in Electronics and Communication Engineering, APJ Abdul Kalam Technological University Jul 2023 CGPA: 7.56