Amit Bera

+91 7303816221 | amitalokbera@gmail.com | amitbera.dev | linkedin.com/in/amitalokbera | github.com/amitalokbera

TECHNICAL SKILLS

Languages: Python, JavaScript, GoLang, Java
Frameworks / Libraries: FastAPI, Django, Flask, Celery, Redis, Pytest, React
Databases: PostgreSQL, SQLite, MongoDB, ChromaDB
AI & Automation Services: LangChain, LlamaIndex, Ollama, n8n, MCP
DevOps / Tools: AWS, GCP, Cloudflare, Docker, Git, GitHub Actions, Alembic, nektos/act
Others: Kafka, RabbitMQ, OpenTelemetry, Prometheus, Grafana, Loki, Tempo

EXPERIENCE

Quantiphi   Jun 2025 – Present
Senior Software Developer (Contract)   *Remote - India*
- Engineered a multi-region backend using **FastAPI**, **PostgreSQL**, and **Apache Kafka**, ensuring 99.9% uptime with reliable cross-region event replication.
- Built Kafka-based async pipelines for audit logging and analytics, boosting system throughput by **60%** and decoupling microservices.
- Implemented enterprise-grade authentication via **SAP Gigya OIDC**, fine-grained RBAC, JWT key rotation, and CSRF protection.
- Developed a compliant data pipeline with **Firebase Storage** and **BigQuery** for secure uploads and analytical tracking.
- Set up CI/CD pipelines on **GCP Cloud Run** using GitHub Actions, Docker, and automated scans (**Trivy**, **SonarQube**) for zero-downtime deployments.

Tensorpix   Dec 2024 – May 2025
Full Stack Developer (Contract)   *Remote - Croatia*
- Re-architected the video upload pipeline using presigned URLs and multipart uploads on **Cloudflare R2**, improving throughput by **70%** and reducing infra load.
- Offloaded metadata and thumbnail generation to client-side **WASM** workers, eliminating backend indexing overhead.
- Boosted user satisfaction by **35%** (3.1 → 4.2) by developing an interactive before/after video comparison feature.
- Increased new user acquisition by **20%** with a no-signup upscaling experience.

Elucidata   Oct 2022 – Aug 2024
SDE - I   *Remote*
- Reduced data delivery time by **40%** by developing the internal **SanityCheck** Python library for automated biomedical file validation.
- Automated large-scale data processing for NextGenJane using **FastAPI**, **Celery**, and **Redis**, improving researcher productivity and throughput.
- Built a **RAG-based assistant POC** leveraging **LangChain**, **LangGraph**, and **ChromaDB** to query internal documentation using **LLMs**, reducing cross-team dependencies.
- Experimented with **prompt engineering** and fine-tuned **small language models (SLMs)** to improve domain-specific query accuracy.
- Developed and maintained key **React** dashboards for CurieBio and Pfizer, supporting internal biomedical data pipelines.

PROJECTS

TNSR.AI
AI-Powered Media Enhancement Platform
- Developed a full-stack AI media enhancement platform using **FastAPI** and **Next.js**, integrating **Google SSO**, **Stripe** billing, and secure file storage on **Cloudflare R2**.
- Built a distributed job system with **Celery** and **Redis**, leveraging **presigned URLs** for scalable media uploads and real-time processing.
- Implemented JWT authentication, dynamic email notifications via **MJML**, and status alerts through email and **Discord webhooks**.
- Set up CI/CD with **GitHub Actions** and monitoring using **OpenTelemetry**, **Grafana**, **Loki**, and **Tempo** for observability and secure deployments.

For more details, visit my blog at here.

EDUCATION

Jai Hind College   Mumbai, India
M.Sc. in Big Data Analytics   *Aug. 2020 – June 2022*

K.P.B Hinduja College   Mumbai, India
B.Sc. in Information Technology   *July. 2017 – June 2020*