

Amit Bera

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frameworks / Libraries: FastAPI, Django (DRF), Flask, React, Next.js, Vue.js, TailwindCSS, Celery, Redis, RabbitMQ

Databases: PostgreSQL, MySQL, SQLite

Cloud Platforms & Services: Google Cloud Platform, AWS, Cloudflare R2

Authentication & Security: JWT, OAuth2, SAP Gigya OIDC, Firebase Auth, RBAC

DevOps / Tools: Docker, Git, GitHub Actions, Alembic, Trivy, SonarQube

Testing Frameworks: Pytest, Jest, Cypress, Selenium, React Testing Library

Monitoring & Observability: OpenTelemetry, Prometheus, Grafana, Loki

EXPERIENCE

Quantiphi (via MyNextDeveloper, Subcontract)

Jun 2025 – Present

Senior Software Developer

Remote - India

- Architected a multi-region backend using **FastAPI**, **PostgreSQL (Cloud SQL)**, and **SCD Type-2** modeling, where each instance in a single region could securely access data across other regions, ensuring global availability.
- Integrated authentication with **SAP Gigya OIDC** and **Firebase**, adding CSRF protection, JWT key rotation, rate-limiting middleware, and a granular **RBAC** system.
- Implemented secure file uploads to **Firebase Storage** with OIDC authentication, and built **BigQuery-powered audit logging and analytics pipelines** for compliance and KPI tracking.
- Set up **CI/CD pipelines** with **GitHub Actions**, **Docker** multi-stage builds, **Trivy** scans, **SonarQube** analysis, and deployments on **GCP Cloud Run** with Cloud Armour.

Tensorpix

Dec 2024 – May 2025

Full Stack Developer (Contract)

Remote - Croatia

- Improved large video file uploads efficiency by 70% by implementing presigned URLs and multipart uploads to **S3 (Cloudflare R2)**.
- Enhanced uploads by integrating a **WASM** worker for client-side metadata extraction and thumbnail generation, eliminating server-side indexing.
- Developed a video preview feature with a draggable slider for before/after upscaled video comparison, improving satisfaction ratings from 3.1 to 4.2.
- Launched a no-signup upscaling feature that increased new user sign-ups by **20%** within a month.
- Established a **CI/CD** pipeline using **GitHub Actions**, enabling faster release cycles with automated testing and deployment.

Elucidata

Oct 2022 – Aug 2024

Data Analyst

Remote

- Developed the **SanityCheck** Python library to validate biomedical files, reducing data delivery time by **40%**.
- Automated data-processing workflows with **FastAPI**, **Celery**, and **Redis**, improving productivity for NextGenJane.
- Built and enhanced **React** applications, including a CurieBio dashboard and Pfizer's internal reporting system.

PROJECTS

TNSR.AI

Web Application to Enhance and Restore Media using AI

- Built a full-stack platform for video, audio, and image upscaling using **FastAPI**, **Next.js (TypeScript)**, and **PostgreSQL**, deployed on a bare-metal Ubuntu server with **Docker**.
- Implemented distributed job processing with **Celery**, **Redis**, and **FFmpeg**, enabling scalable AI-powered media processing (super-resolution, denoising, face restoration, audio enhancement).
- Integrated **JWT authentication** with Google SSO, rate limiting, and secure file storage on **Cloudflare R2**.
- Added real-time job status updates with **WebSockets** and billing with **Stripe** for subscription management and multi-currency support.
- Established CI/CD pipelines with **GitHub Actions** and implemented observability with **OpenTelemetry**, **Prometheus/Grafana**, and **Loki** for metrics and log aggregation.

For more in-depth details about the project, you can visit my blog [here](#).

EDUCATION

Jai Hind College

M.Sc. in Big Data Analytics

Mumbai, India

Aug. 2020 – June 2022

K.P.B Hinduja College

B.Sc. in Information Technology

Mumbai, India

July. 2017 – June 2020