

# Amit Bera

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## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java

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

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB

**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, nektos/act

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

**Monitoring & Observability:** OpenTelemetry, Prometheus, Grafana, Loki

## EXPERIENCE

### Quantiphi

Jun 2025 – Present

*Senior Software Developer (Subcontract)*

*Remote - India*

- Architected a multi-region backend using **FastAPI**, **PostgreSQL (Cloud SQL)**, and **SCD Type-2** modeling to support cross-region data access and ensure global scalability and fault tolerance.
- Integrated authentication via **SAP Gigya OIDC** and **Firebase**, implementing CSRF protection, JWT key rotation, rate limiting, and a fine-grained **RBAC** system for enterprise-grade security.
- Developed secure file upload workflows with **Firebase Storage** and OIDC authentication, along with **BigQuery**-based audit logging and analytics pipelines for compliance tracking.
- Set up a robust **CI/CD pipeline** using **GitHub Actions**, **Docker** multi-stage builds, **Trivy** scans, and **SonarQube** checks, deploying to **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.

### Elucidata

Oct 2022 – Aug 2024

*SDE - I*

*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.
- Developed a **RAG-based internal assistant** on internal **Confluence** docs to locate resources, reducing inter-departmental dependencies and improving knowledge accessibility.
- 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

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*