Granth Agarwal

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EDUCATION

APJ Abdul Kalam Technical University — Uttar Pradesh, India
Bachelor of Technology – Computer Science — *Oct 2023 – Present*

TECHNICAL SKILLS

- **Languages**: Python, SQL, HTML, CSS
- **Frameworks**: Django, Django REST Framework, FastAPI, Flask, Celery
- **Tools**: Git, GitHub, Postman, Redis, Celery, RabbitMQ
- **Databases**: PostgreSQL, MySQL, SQLite, Supabase (Postgres)
- **Platforms**: Linux, Google Cloud Platform, Serverless Functions
- **Soft Skills**: Leadership, Community Building, Mentoring, Technical Writing

EXPERIENCE

Freelance — Remote
Backend Developer (Contract) — *Oct 2025 – Present*

- **Backend Architecture**: Architected a scalable backend for a rural commerce platform using **Django** and **PostgreSQL/Supabase**, improving reliability and query performance.
- **Access Control**: Implemented **OTP authentication** and RBAC, reducing onboarding friction and strengthening platform security.
- **REST APIs**: Delivered **40+ REST APIs** powering orders, warehouses, riders, deliveries, and payments for a launch-ready MVP.
- **Geospatial Routing**: Integrated **PostGIS** to improve warehouse selection accuracy and reduce delivery delays.
- **Performance**: Enhanced throughput using **Redis caching** and async workflows (**Celery + RabbitMQ**).
- **Reliability**: Increased release stability with **230+ automated tests**, reducing regressions across the system.

EverythingAboutAI — Remote
Python Developer Intern — *Jul 2025 – Aug 2025*

- **Automation**: Built workflow **automation services** using FastAPI, reducing manual operational effort.
- **No-code Pipelines**: Developed Make.com pipelines, improving execution speed of repetitive business processes.
- **QA Stability**: Improved product reliability through structured **testing and QA**, identifying edge cases and optimizing input workflows.

PROJECTS

- **TrustSystem (Identity Verification, Fraud Detection, Vector Search)**: Patent-published backend system for continuous **identity verification** using facial and persona embeddings. Built **4 Django apps**, **12+ models**, and **18+ APIs**. Integrated **pgvector** for high-dimensional similarity search enabling anomaly and fraud detection. Tech: Python, Django, PostgreSQL (pgvector), Redis, Sentence Transformers.

- **StandardStitch (Multi-Tenant Commerce, RBAC, Order Workflow)**: Production-grade backend for a **multi-tenant school-uniform marketplace**. Implemented **RBAC onboarding**, **20+ models**, and **30+ REST APIs** powering catalog, vendors, cart, checkout, and orders. Designed scalable pricing, listing, and size-level inventory systems. Tech: Python, Django, PostgreSQL, REST APIs, PostGIS.

- **MemeTrends (API-only Backend, Leaderboards, Analytics)**: Scalable API backend aggregating and analyzing meme trends from Reddit and Twitter (X). Implemented **JWT auth**, permissions, filtering, and pagination using DRF. Built Redis-backed **leaderboard** with Celery-based time-decayed trending score computation. Tech: Django, DRF, Redis, Celery, PostgreSQL.

PATENTS AND PUBLICATIONS

Multi-Modal Identity and Behavior Verification System for Online Platforms
Patent Published: November 28th , 2025 — Application No: 202511094809
A published patent describing a **multi-modal identity verification system** that fuses **biometric embeddings** and **behavioral (persona) embeddings** into a unified **trust anchor**. The system supports **continuous verification**, **drift-tolerant profile checks**, and **cross-account fraud detection** for scalable use across online platforms.

VOLUNTEER EXPERIENCE

Core Team Lead — Elixir Tech Community — Ghaziabad, India
*Led a **5,000+ member** tech community, conducting workshops and managing engagement.* — *2025 – Present*

Technical Coordinator — GeeksForGeeks ABESEC Chapter — Ghaziabad, India
Organized coding events and supported technical activities for campus developer programs. — *2024 – 2025*