

# Shoury Rana

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## EXPERIENCE

### Django Backend Intern

October 2025 – Present

*Slotin Solutions | Remote*

*Hyderabad, India*

- Built **20+ RESTful APIs** using **Django REST Framework** for **authentication, authorization, subscriptions, and admin workflows**, supporting **real user traffic** and revenue-critical flows.
- Designed and enforced fine-grained **Role Based Access Control (RBAC)** using **Django permissions, groups, and custom permissions** across **25+ protected endpoints**, preventing privilege escalation in admin and moderation workflows.
- Implemented a polymorphic subscription system using **Django ContentType**s, enabling multiple monetization models while minimizing schema changes and future feature risk.
- Built a flexible **EAV-based configuration system** to support **dynamic product attributes** without redeployments, reducing backend change requests for new product variants.
- Led the **migration of a production Firebase backend (DB, functions, storage) to Django**, improving cost control, backend flexibility, and long-term scalability while reducing vendor lock-in.
- Developed an **internal React-based admin dashboard** to automate database operations and reduce manual operational overhead for non-technical teams.
- Integrated **Firebase Cloud Messaging (FCM)** for **event-driven push notifications** with **automated cleanup** of invalid tokens, improving delivery reliability in production.
- Refactored **~700 LOC** monolithic Django views/serializers into modular components using safe IDE refactors, improving code maintainability, testability, and onboarding speed.

## PROJECTS

### LinkCrate - Secure File Sharing Platform | *Django, DRF, Supabase, React, PostgreSQL*

August 2025

- Built a **secure file-sharing platform** supporting **password-protected** and **time-bound links**, focusing on **access control** and **data security**.
- Designed backend APIs for **file upload, metadata storage, and access validation**.
- Implemented **link expiration** and **access control logic** to restrict unauthorized downloads.

### Samudra Sathi | Hackathon Prototype | *Django, DRF, PostgreSQL, PostGIS*

September 2025

- Developed backend APIs for **crowdsourced flood and hazard reporting**.
- Designed **geospatial data models** to support location-based hazard visualization.

## TECHNICAL SKILLS

**Backend & Frameworks:** Django, Django REST Framework, Flask

**Databases & Storage:** PostgreSQL, Supabase, PostGIS, Firebase Realtime Database

**Cloud & Messaging:** Firebase Cloud Messaging (FCM), Firebase Storage, Supabase Storage

**Frontend:** React, Tailwind CSS, HTML, CSS

**Languages:** Python, JavaScript, C, C++

**Tools & Platforms:** Git, GitHub, Postman, VS Code, Docker

## EDUCATION

### Guru Tegh Bahadur Institute of Technology

New Delhi, India

*Bachelor of Technology (B.Tech) in Computer Science and Engineering | CGPA: 8.72/10.0 Aug. 2024 – May 2028*

### Kendriya Vidyalaya Pragati Vihar

New Delhi, India

*Senior Secondary (Class XII) | CBSE | Result: 83.6%*

2024

## ADDITIONAL INFORMATION

- Team secured **2nd position** in **Azinhack'25** organized by **IoSC, GGSIPU-EDC**
- **Social Summer of Code (SSoC)**: Top 50 contributors; contributed to multiple open-source repositories
- **GirlScript Summer of Code (GSSoC)**: Top 2.5% contributor; contribution led to an internship opportunity