

Dilip Kumar

Backend Developer — Python | Django | Node.js

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[GitHub](#) | [LinkedIn](#)

Professional Summary

Backend Developer with hands-on expertise in building scalable REST APIs (Python, Django, DRF, Node.js), asynchronous task handling (Celery, Redis), and cloud deployments (AWS EC2/S3, DigitalOcean). Proven record of improving API performance by 30%+, reducing manual work by 40%, and delivering real-world solutions for education and healthcare domains.

Technical Skills

- **Languages:** Python, JavaScript
 - **Frameworks:** Django, DRF, Node.js, Express.js
 - **Backend:** REST APIs, JWT, OAuth, Celery, Redis
 - **Databases:** MongoDB, PostgreSQL, MySQL
 - **Cloud & DevOps:** AWS EC2/S3, DigitalOcean, Docker, Git, GitHub Actions, GitLab CI/CD
 - **Tools:** Pandas, Pillow, Axios, Postman, Linux
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Professional Experience

Backend Developer — [NowAWave Technologies, Jodhpur](#)

January 2025 – Present

- Developed and optimized REST APIs for school management platform (3,500+ schools, 7,00,000+ students).
 - Improved API response time by 25% with query optimization and caching.
 - Implemented asynchronous tasks with Celery & Redis to reduce manual workload by 40%.
 - Managed MongoDB & PostgreSQL databases with data-driven enhancements.
 - Deployed updates to EC2/S3 and followed Git-based collaborative workflows.

Backend Development Intern — Bugs & Glitches (Remote)

November 2024 – January 2025

- Built secure APIs in Django and Node.js with JWT-based authentication.
- Applied DB indexing & optimization to reduce query time by 20%.
- Contributed to backend/frontend integration and tested APIs with Postman.

Real-World Projects

Kreedo — School Management Backend

- **Tech Stack:** Python, Django, DRF, Celery, Pandas, Redis, PostgreSQL, AWS EC2/S3
- Team Size:** 9 members (1 Team Lead, 1 Senior Backend, 2 Junior Backend including me, 1 Frontend, 1 DevOps, 2 QA Testers, 1 Game Developer)
 - Developed and maintained the backend powering **3,500+ schools and over 7,00,000 students**, focused on performance, scalability, and data accuracy.
 - Built modular APIs for schools, students, user onboarding, licenses, and assessments with **role-based access control** and **JWT authentication**.
 - Automated skill-based assessment scoring using **Celery + Pandas**, reducing manual workload by **40%** and enabling efficient daily batch processing.
 - Optimized complex queries and added Redis caching, leading to **25% faster API response times**, especially on analytics-heavy endpoints.
 - Collaborated closely with the **team lead, senior backend developer, and QA testers** during sprint cycles to ensure feature completeness and testing coverage.
 - Integrated game-based assessments into the backend, coordinating with the **game developer** to align gameplay outcomes with curriculum goals.
 - Used **PostgreSQL for structured data**, managed schema migrations and indexing strategies for performance at scale.
 - Wrote detailed **Swagger documentation**, contributed to code reviews, and participated in **daily standups and sprint reviews**.
 - Handled **cloud deployment** tasks using **AWS EC2/S3**, followed Git-based version control and CI/CD workflows with GitLab pipelines.
 - Gained deep domain knowledge in **K-12 education workflows**, skill-mapping systems, and performance reporting for teachers and admins

Education & Certifications

- [B.Com \(Finance & Economics\)](#) — [Jai Narayan Vyas University, 2021](#)
- Certifications: [MongoDB \(MongoDB Inc.\)](#), Django (W3Schools), [Python Core](#)
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Core Competencies

System Design | Backend Architecture | API Optimization | Git & GitHub Workflows | Background Tasks & Scheduling | Cloud Deployments | Data Modeling