

# BISHAL ACHARYA

Python Backend Developer | Django | DRF | REST APIs

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## PROFESSIONAL SUMMARY

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Results-driven Python Backend Developer with hands-on experience building scalable RESTful APIs, authentication systems, and database-driven applications using Django and FastAPI. Proficient in JWT-based authentication, ORM integration, PostgreSQL, schema validation, and async programming. Passionate about clean code, efficient backend architecture, and delivering production-ready software solutions.

## TECHNICAL SKILLS

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**Languages:** Python, SQL, JavaScript, HTML5, CSS3

**Frameworks & Libraries:** Django, Django REST Framework (DRF), FastAPI, NumPy, Pandas

**Backend & APIs:** RESTful API Design, JWT Authentication, OAuth2, Role-Based Access Control (RBAC), API Security

**Databases & ORM:** PostgreSQL, SQLite, SQL Server, Django ORM, SQLAlchemy, ChromaDB (Vector DB)

**Tools & Version Control:** Git, GitHub, Postman, VS Code, Render (Cloud Deployment)

## PROFESSIONAL EXPERIENCE

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### Codavatar Tech Pvt. Ltd | Backend Developer Intern

*Feb 2026 – May 2026*

- Developed and maintained RESTful APIs for user management and data-driven web applications using Django and FastAPI, following MVC/MVT design patterns.
- Implemented secure authentication and authorization with JWT (JSON Web Tokens), including token generation, refresh flows, user verification, and protected API route guards.
- Designed scalable backend systems with proper URL routing, Pydantic schema validation, Django ORM/SQLAlchemy database integration, and optimized raw SQL queries.
- Strengthened core Python skills: OOP, file handling, async/await programming, exception handling, and writing unit tests for backend services.
- Improved API performance through response caching, efficient error handling, pagination, and structured JSON response formatting.

## PROJECTS

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### Tourism Permit Management System — [Live Demo](#)

- Built a full-stack web application for national park and trekking permit management using Python, Django, and PostgreSQL with MVC architecture.
- Implemented role-based access control (RBAC) with secure authentication for Admin and User roles, managing permit application workflows (pending/approved/rejected).
- Designed normalized PostgreSQL database schemas, integrated Django ORM for CRUD operations, and deployed on Render cloud platform.

### Retrieval Augmented Generation (RAG) System — [GitHub](#)

- Engineered a RAG pipeline integrating document embeddings, vector similarity search, and LLM responses using Python, Django, ChromaDB, and the Gemini API.
- Built contextual knowledge injection and semantic search with embeddings generation — demonstrating applied AI/ML integration in backend systems.

### E-Voting System — [GitHub](#)

- Developed a web-based election management platform using Django, Python, SQLite, and Bootstrap with secure voter authentication and session management.
- Built core features: candidate registration, vote casting with duplicate-prevention logic, vote tallying engine, and real-time result display.

## EDUCATION

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### Bachelor of Science in Computer Science & Information Technology (B.Sc. CSIT)

*2022 – 2026*

Amrit Science Campus (ASCOL) — Tribhuvan University, Kathmandu, Nepal