



# NIKHIL BHAGAT

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[Github](#) | [Linkedin](#) | [Portfolio](#)

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## Objective

Full Stack Engineer with 8+ years of experience building scalable APIs, real time systems, and AI powered products. Specialized in Python-based backends, cloud-native architectures, and integrating Generative AI using LLMs like OpenAI and LangChain. Passionate about system design, performance optimization, and building intelligent, automation first backend solutions.

## Technical Skills

- ✓ Languages: Python, JavaScript (ES6+), SQL
- ✓ Backend Frameworks: Django, Django REST Framework, FastAPI, Node.js (Express.js)
- ✓ AI / GenAI: OpenAI API, LangChain, LlamaIndex, Vector DBs (Pinecone, FAISS), Transformers, TensorFlow
- ✓ Databases: PostgreSQL (with PostGIS), MongoDB, Redis
- ✓ Cloud & DevOps: Docker, Kubernetes, AWS (Lambda, EC2, S3), GitHub Actions, Jenkins, Terraform, Ansible
- ✓ Architecture: RESTful APIs, Microservices, Event-Driven Design, Kafka, Webhooks, Background Workers (Celery + Redis)
- ✓ Realtime & Notifications: Firebase, WebSockets, Push Notifications
- ✓ Testing & Observability: Pytest, Postman, Django Debug Toolbar, Logging & Metrics

## Projects

### 1. Rani ( Code Debugger AI Tool )

- GitHub: [Link](#)
- Built a chatbot leveraging OpenAI API to analyze and explain codebases, reducing debugging time by 30%.
- Tech Stack: Python, LangChain, Generative AI

## **2. Tung Tung (Location Based Game Full Backend mechanics API's)**

- Github: [Link](#)
- Built a real-time backend for a GPS-based multiplayer game where users can claim zones, engage in strategic attacks, and take ownership of rival territories.
- Implemented geofencing, real-time push notifications, and live synchronization to deliver dynamic gameplay and territory battles across an interactive map.
- Integrated secure user authentication, scalable data handling, and an official leaderboard system tracking the top 100 players for competitive ranking.
- Built with Django, Django REST Framework, and GeoDjango, using PostgreSQL + PostGIS for spatial data, JWT authentication, Celery + Redis for background tasks, Firebase for push notifications, and PostGIS spatial queries to power real time zone battles, leaderboards, and geolocation based gameplay.

## **3. Neural Network Visualizer Tool**

- Live Demo: [Link](#)
- Created an interactive React.js tool to visualize neural networks, adopted by 200+ users for educational purposes.
- Tech Stack: React.js, D3.js, TensorFlow

## **4. Wahi AI (Nepal Financial Reporting Standards (NFRS)) [ Full Backend Api's ]**

- Github: [Link](#)
- Developed an intelligent document driven conversational AI system to assist users with Nepal Financial Reporting Standards (NFRS), delivering accurate, context aware guidance in both English and Nepali.
- Implemented secure JWT authentication, multilingual support, semantic document processing, and vector based retrieval using FAISS for precise, real-time financial query responses.
- Built on Django REST Framework, FAISS for semantic search, JWT for authentication, and advanced NLP models to power AI driven conversational experiences.

## **5. Microservice Generator Tool (Turbogen)**

- npm Package: [Install it](#) (`npm i turbogen`)
- Automated microservice scaffolding, cutting setup time by 50% for Node.js projects.
- Tech Stack: Node.js, CLI Tools

## **6. Battisputali Backend (Community App Just like a TikTok)**

- GitHub: [Link](#)
- Developed a scalable backend for a community app serving 10k+ users with real-time features.
- Tech Stack: Node.js, MongoDB, WebSocket, Cloudinary

(Additional projects: [Portfolio](#) | [Github](#))

## **Educational Qualification**

### **Bachelor of Computer Application (BCA)**

Mahendra Morang Aadarsha Multiple Campus | 2025

### **Secondary School Certificate**

Merryland College | 2013

## **Experience**

### **CineART • Hong Kong • 06/2022 – Present**

#### **Senior Backend Developer**

Lead backend development for a LinkedIn style platform for Nepal, building scalable APIs using Django REST Framework.

- Designed and deployed microservices with Docker and Heroku; planning AWS migration.
- Implemented engagement based algorithm to rank user posts and boost content visibility.
- Set up CI/CD with GitHub Actions and integrated third party services.
- Implemented secure auth systems (JWT), optimized performance with Redis, and improved server efficiency.
- Collaborated with cross functional teams and mentored junior developers for clean, test-driven code.
- Collaborated with other team members to troubleshoot and resolve issues efficiently.

## **Certifications & Open Source**

- ✓ npm Contributor: Published Turbogen (1k+ weekly downloads) and 4+ utility packages.
- ✓ Open Source: 75+ repositories with 50+ stars; active contributor to AI/ML tools.

## **Core Competencies**

- ✓ API Design & Scalability | CI/CD Pipelines | Agile Development
- ✓ Problem-Solving | Cross-functional Collaboration | Technical Documentation

## **Interests**

Generative AI Research, Cloud Native Architecture, Open Source Development