NIKHIL BHAGAT

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Github | *Linkedin* | *Portfolio*

Address: Hathkhola, Biratnagar, Nepal

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