

BABIN GHIMIRE

BEIT Student & Backend Developer

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PROFILE SUMMARY

Bachelor of Engineering in Information Technology (BEIT) student with a strong interest in backend development, AI, and building real-world software solutions. Experienced in turning ideas into practical applications using FastAPI, PostgreSQL, SQLAlchemy, and Next.js. Led the development of an AI-powered emergency response system (LifeLink) at the National AI Hackathon 2026. Brings an engineering mindset from a prior background in Civil Engineering, combined with hands-on software development skills, to build scalable and impactful solutions.

EDUCATION

Bachelor of Engineering in Information Technology (BEIT)

Cosmos College of Management and Technology (affiliated to Pokhara University) -2nd Year, 4th Semester

Diploma in Civil Engineering -prior to transitioning into software engineering

TECHNICAL SKILLS

Languages & Backend: Python, FastAPI, REST APIs, SQLAlchemy, Pydantic, Flask

Databases: PostgreSQL, SQLite

Frontend: HTML, CSS, JavaScript, Next.js, Tailwind CSS, Framer Motion

AI/Other: AI/ML fundamentals, Google Maps API

Tools: Git, GitHub

PROJECTS

LifeLink - National AI Hackathon 2026 (Team Leader)

2026

- Built an AI-powered emergency response system for road accidents: users upload a 10-second video clip of an accident scene.
- Admin verifies the clip to confirm whether a genuine accident has occurred before any action is taken.
- On verification, the system automatically sends a request to the nearest ambulance service.
- An AI model predicts the most suitable hospital based on the patient's condition and a hospital database.
- Integrated Google Maps API for routing and navigation to the selected hospital.
- Led system design, backend integration, and AI-based decision logic as team leader.

Tech Stack: Python, Flask, AI/ML, Google Maps API, PostgreSQL, JavaScript

Loan / EMI Management System

2026

- Built a backend-driven banking system that digitizes customer, loan, EMI schedule, and payment management.
- Designed a FastAPI backend with automated EMI generation, payment tracking, and live outstanding balance calculation.
- Implemented REST APIs and dashboard reporting with automated business logic.

Tech Stack: FastAPI, SQLite, Pydantic, REST API, Uvicorn, HTML, CSS, JavaScript

Portfolio Website

2026

- Designed and built a modern, responsive developer portfolio showcasing skills, projects, and experience.
- Implemented with Next.js following modern UI design principles.

Tech Stack: Next.js, Tailwind CSS, Framer Motion

ACHIEVEMENTS

- National AI Hackathon 2026 -Team Leader, led the LifeLink project from concept to working prototype.