

ROCHAK ADHIKARI

Backend-Focused Full-Stack Developer | BCA Student

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SUMMARY

BCA student and backend-focused full-stack developer with practical experience building web applications using JavaScript, React/Next.js, Node.js, Express, and databases. Interested in backend systems, REST APIs, application architecture, and building usable software through academic and personal projects.

TECHNICAL SKILLS

Languages: JavaScript, Java, HTML, CSS, PHP (coursework), Python (personal project work)

Backend: Node.js, Express.js, REST APIs

Frontend: React, Next.js

Databases: MongoDB, MySQL (coursework)

Tools: Git, GitHub, Docker

PROJECTS

HostelHub — Hostel Management System | *Next.js, React, TypeScript, Express, MongoDB/Mongoose, Tailwind CSS*

- Built a role-based hostel management application with Admin, Student, and Guardian dashboards.
- Implemented authentication, room CRUD, student management, room allocation, occupancy tracking, and validation rules.
- Integrated the frontend with REST endpoints and documented working versus scaffolded modules.

github.com/Rochak-Adhikari/hostel-management-system

NOVA — Personal Finance Manager | *TypeScript, Node.js, Express, Prisma, PostgreSQL*

- Developing a personal finance application for accounts, transactions, categories, bills, and loan tracking.
- Built the backend around a typed REST API and Prisma/PostgreSQL data model, including authentication and ledger structures.
- Actively in development; planned features are kept separate from implemented functionality.

github.com/Rochak-Adhikari/NOVA

Lumina — Personal AI Desktop Companion | *Python, FastAPI, Electron, React, TypeScript*

- Developing a long-term personal side project exploring voice interaction, desktop automation, memory, and extensible tool/skill systems.
- Worked on modular backend architecture including dependency injection, event-driven components, runtime services, and workspace-aware reasoning.
- Uses the project to deepen practical Python development and software-architecture skills.

github.com/Rochak-Adhikari/LUMINA

EDUCATION

Bachelor of Computer Applications (BCA) | Kantipur College of Management and Information Technology (KCMIT), Tribhuvan University | 2024–Present

ADDITIONAL INTERESTS

3D modeling • 3D animation • Unity