

# Abhisek Gupta

## Product-Focused Software Engineer (Backend-Leaning, Node.js)

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Location: Open to Remote / International Opportunities

## Professional Summary

Product-focused software engineer with strong backend ownership and end-to-end delivery experience. Skilled in designing backend APIs, authentication systems, relational data models, payment workflows, and media handling pipelines. Experienced in shipping production-grade web systems using Node.js, PostgreSQL, and modern frontend frameworks, with emphasis on correctness, reliability, and real-world failure handling.

## Education

### Bachelor of Engineering in Computer Engineering

Institute of Engineering (IOE), Purwanchal Campus

Jan 2024 – Feb 2028

#### Relevant Coursework:

Data Structures & Algorithms, Database Management Systems, Artificial Intelligence, Data Science

## Projects

### E-Commerce Platform (Merchant-Focused System) <https://ecommerce-eta-one-33.vercel.app/>

#### Tech Stack: Node.js, PostgreSQL, Next.js, TypeScript

- Designed and implemented a backend-driven e-commerce system with clear separation between UI, APIs, and data layers
- Modeled relational PostgreSQL schemas for users, products, carts, and indexed queries for performance
- Implemented secure authentication and authorization flows to support merchant, admin and customer roles
- Designed scalable image upload and delivery pipelines using ImageKit for product media management
- Deployed production environments with secure secret management and environment isolation

### AI-Powered Text Summarization Platform <https://everything-eight-bice.vercel.app/>

#### Tech Stack: Node.js, Next.js, TypeScript, PostgreSQL, OpenAI/ Gemini API

- Designed backend APIs for text ingestion, processing, and summary generation
- Implemented validation, structured error handling, and rate-aware integration with third-party AI services
- Structured backend logic to support future extensions such as usage tracking, analytics, and cost control
- Delivered a production-ready system with clean separation between frontend presentation and backend services

## Core Engineering Skills

### Backend Engineering

- Node.js backend architecture
- RESTful API design and contract ownership
- Authentication & authorization (JWT, OAuth, session-based auth)
- Error handling, retries, and failure-safe workflows

### Databases & Data Modeling

- PostgreSQL schema design
- Indexing and query optimization

### Media & File Handling

- Image and file upload pipelines
- Integration with UploadThing and ImageKit for scalable asset management

### Frontend (Supporting Layer)

- React and Next.js (App Router)
- Server-side rendering and data fetching strategies
- TypeScript-driven component architecture

### Infrastructure & DevOps

- Deployment workflows (Vercel)
- Git-based version control

### Payments & Integrations

- Stripe payment workflows
- Webhook handling with Third-party API integrations

## Achievements & Certifications

Winner – C Language Project Competition

Hackathon Winner – Futuristic Project Category

CS50 Nepal Certificate