

PRINCE BABU

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Career Objective

Aspiring Software Developer pursuing a Bachelor of Computer Applications (BCA) with expertise in MERN Stack development, backend engineering, and AI integration. Experienced in building full-stack web applications, REST APIs, authentication systems, and AI-powered features using modern technologies. Strong foundation in Data Structures & Algorithms, database management, and software development principles, with a passion for creating scalable and impactful solutions.

Education

GL Bajaj Institute of Technology & Management, Greater Noida, UP <i>Bachelor of Computer Applications (BCA)</i>	2025 – Present
Dhumari Public School, Dhumri, Etah, UP <i>12th – CBSE (PCM)</i>	2024

Technical Skills

Languages: C, C++, JavaScript, TypeScript

Web Technologies: React.js, Tailwind CSS, Redux Toolkit, Node.js, Express.js, REST APIs

Database: MySQL, MongoDB, SQL

Tools & IDEs: VS Code, IntelliJ IDEA, Git, GitHub, Postman

Operating Systems: Windows, Linux (Ubuntu)

Other: Data Structures & Algorithms, OOP, DBMS, Computer Networks

Projects

EcoMart – E-Commerce Web Application | *MERN Stack*

- Built a full-stack e-commerce platform with product catalog, cart, and checkout flow using React and a REST API backend.
- Designed MongoDB schemas for products, orders, and users; deployed frontend on Vercel with a connected backend API.
- Live: ecomart-theta.vercel.app | GitHub: github.com/princebabudotcom/Ecomart

Hostel Management Website | *MERN Stack*

- Developed a web application to manage hostel room allocation, student records, and admin operations.
- Modeled relational student-room-allocation data in MongoDB and built REST endpoints for CRUD operations.
- GitHub: github.com/princebabudotcom/hostel-website (live demo to be deployed)

AI Chatbot – Full Stack MERN Application | *MERN Stack, AI Integration*

- Built an AI-powered chat application as decoupled frontend and backend services communicating over a REST API.
- Implemented chat session handling and message persistence in MongoDB, with a Node.js/Express API layer integrating an AI model.
- GitHub (Backend): [mern-ai-chat-app](https://github.com/princebabudotcom/mern-ai-chat-app) | GitHub (Frontend): [mern-ai-chat-frontend](https://github.com/princebabudotcom/mern-ai-chat-frontend)

Authentication & User Management System (Role-Based)

In Progress

- Node.js, Express, MongoDB, React, Socket.io, JWT*
- Implemented JWT access/refresh token rotation with SHA-256 hashing and token-family reuse detection to block stolen-token replay attacks.
- Built session management with MongoDB TTL indexes, device fingerprinting via ua-parser-js, bulk session revocation, multi-stage 2FA via OTP, and a Socket.io layer for real-time online/offline tracking.
- Built a dark-mode React + Tailwind CSS control-panel UI (Account Settings, Profile, Security pages). GitHub: github.com/princebabudotcom/Authentication (live demo to be deployed)

DSA & Competitive Programming | *C++ and LeetCode*

- Solved 50+ Data Structures & Algorithms problems in C++ with consistent daily practice.
- DSA (C++): github.com/princebabudotcom/DSA-CPP | LeetCode: leetcode.com/u/j8YVGTPefr
- LeetCode solutions: github.com/princebabudotcom/Leetcode-Questions | GitHub Profile: github.com/princebabudotcom

Certifications

Sheryians AI MERN Cohort – Sheryians Coding School

Achievements & Activities

- Ranked 2nd in Intra-College Coding Competition (2024) – solved DSA problems under timed conditions.
- Participated in Smart India Hackathon (SIH) 2024 – proposed an AI-based attendance system.
- Member of College Tech Club – organized workshops on Git/GitHub for juniors (50+ attendees).
- Published a tech blog on Medium covering Python tips – 500+ total reads.

Soft Skills & Languages

Problem Solving | Team Collaboration | Time Management | Quick Learner | Communication | Adaptability

Languages: Hindi & English