

BHOOMI SHARMA

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PROFESSIONAL SUMMARY

Backend-focused Software Development Engineer with hands-on experience building scalable, secure, and production-ready RESTful systems using Node.js, Express.js, and MongoDB. Designed financial-grade transactional systems with JWT authentication, atomic database operations, and optimized indexing strategies. Strong problem-solving foundation with 105+ DSA problems solved and active open-source contributions. Passionate about building high-performance backend architectures.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), Python, C++
Backend: Node.js, Express.js, REST APIs, JWT, Middleware, MVC Architecture, Socket.io
Databases: MongoDB, MySQL, Mongoose, Indexing, Aggregation Pipeline, Transactions
DevOps & Tools : Git, GitHub (PRs, Code Reviews), Postman, Render
Core CS: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Organization

PROJECTS

Backend Ledger System

Tech Stack: Node.js, Express.js, MongoDB, Mongoose, JWT, Bcrypt, Nodemailer

1. Designed and developed secure RESTful APIs with JWT-based authentication and role-based access control
2. Implemented atomic and idempotent transaction APIs using MongoDB sessions to ensure zero data inconsistency
3. Built an immutable double-entry ledger system simulating real-world financial accounting principles
4. Optimized database performance using indexing and aggregation pipelines
5. Deployed production-ready backend service on Render
6. GitHub: [Bhoomi070/backend-ledger](https://github.com/Bhoomi070/backend-ledger)

AI Real-Time Chat Application

Tech Stack: Node.js, Express, Socket.io, Google Generative AI

1. Engineered real-time bi-directional messaging system using WebSockets for low-latency communication
2. Integrated external AI APIs for dynamic, AI-powered responses
3. Designed scalable server architecture to handle concurrent users efficiently
4. Secured environment configurations and optimized API performance
5. GitHub: [Bhoomi070/AI-Chatbot](https://github.com/Bhoomi070/AI-Chatbot)

WORK EXPERIENCE

Mentor - Apertre

Remote | Jan - Present

1. Mentored students in backend API design and REST architecture
2. Conducted structured code reviews and guided Git workflow best practices
3. Helped optimize REST APIs and database queries for improved performance

TRAINING & CERTIFICATIONS

1. GirlScript Summer of Code (GSSOC) - Open Source Contributor
2. Sheriyans Coding School - Full Stack / Backend Development Training
3. SheFi - Web3 & Blockchain Fundamentals Program

EDUCATION

Bachelor of Technology (B.Tech) - Computer Science Engineering
Dr. A.P.J. Abdul Kalam University
CGPA: 8.8

Aug 2022 - June 2026

ACHIEVEMENTS

1. Top 5% Nationally - CodeClash 2025 (15,000+ participants)
2. Hacktoberfest Contributor
3. GSSOC Contributor
4. Solved 105+ DSA problems on LeetCode (Arrays, Strings, Trees, Recursion, Binary Search)