

Vishal Prasad

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Summary

B.Tech student focused on software development and AI-powered applications, with hands-on experience in Python, JavaScript, React, Node.js, and MongoDB. Built projects involving web scraping, data processing, REST APIs, LLM applications, AI agents, and RAG fundamentals.

Skills

Languages: C++, C, JavaScript, Python

Frontend: React.js, React Native, Tailwind CSS

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

Generative AI: LangChain, LLMs, Prompt Engineering, AI Agents, RAG, Embeddings, ChromaDB

LLM Platforms: OpenAI, Google Gemini, Groq, HuggingFace, Ollama

Core Concepts: Data Structures & Algorithms, System Design, OOP, DBMS, Computer Networks

Tools: Git, GitHub, Linux

Coding Profiles

- **LeetCode:** leetcode.com/u/vishalprasad98755/ – 220+ Problems Solved, Max Rating: **1540**
- **GeeksforGeeks:** [geeksforgeeks.org/profile/vishalpras18t](https://www.geeksforgeeks.org/profile/vishalpras18t) – 150+ Problems Solved, Coding Score: **578**

Project Work

- **AI-Powered Agentic Commerce Platform:** Built an agentic commerce platform using Python, LangChain, Node.js, Express, MongoDB, and vector search for natural-language product discovery, AI-powered recommendations, and automated buyer interactions. Integrated Razorpay test-mode APIs for order creation and payment processing, with auditable activity tracking and role-based buyer/merchant workflows.
- **Music Streaming Mobile Application:** Developed a React Native application integrating the Innertube API to stream music with dynamic recommendations and playlist management. Implemented efficient API handling, asynchronous data fetching, and optimized state management for smooth playback.
- **SQL AI Agent:** Developed an AI-powered interface for interacting with SQL databases using natural language. Integrated LangChain with SQL databases and implemented agent-based query generation and execution.
- **URL Shortener:** Developed a full-stack URL shortening application using Node.js, Express.js, EJS, and MongoDB. Implemented unique 8-character URL generation with NanoID, JWT-based authentication, and click analytics with unique views per user. Stored redirect URLs, timestamps, and analytics data in MongoDB.

Education

Jalpaiguri Government Engineering College

2023 - 2027

B.Tech in Electronics and Communication Engineering

CGPA: 8.21/10

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Digital Electronics, Microprocessors, Signals & Systems

Jawahar Navodaya Vidyalaya, Hooghly

2018 - 2022

IX - XII

Percentage: 84%

Certifications

- Google Cybersecurity Professional Certificate
- Ethical Hacking Certificate (SWAYAM)