# Vishal Srivastava

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## Summary

Generative AI Engineer and Computer Science undergraduate with experience designing and evaluating software-engineering benchmark tasks for AI coding agents. Hands-on experience with repository-level task creation, code evaluation, debugging, automated validation, prompt optimization, and full-stack application development, backed by strong foundations in Data Structures and Algorithms, OOP, DBMS, Operating Systems, and Computer Networks.

## Experience

**AirDawg Labs – Caudal AI** Aug 2026 – Oct 2026

*Generative AI Engineer Intern*

- Create and refine repository-level software-engineering tasks for AI coding agents using **Sentinel, Harbor, and Terminus**, covering implementation, refactoring, debugging, and feature-development workflows.
- Design and evaluate agent tasks on real codebases, analyzing generated solutions for correctness, code quality, requirement adherence, regression risk, and functional behavior.
- Develop task specifications, expected solutions, and automated validation workflows to assess AI-agent performance on realistic software-engineering problems.
- Analyze recurring agent failures and refine task instructions, evaluation criteria, and validation workflows to improve solution quality and consistency.

## Technical Skills

**Languages:** Java, JavaScript, TypeScript, C, SQL
**Backend:** Node.js, Express.js, REST APIs, JWT Authentication
**Frontend:** React.js, Next.js, Redux, Tailwind CSS
**Databases:** MongoDB, PostgreSQL, Redis
**AI/Generative AI:** Generative AI, AI Agents, LLM Evaluation, Prompt Optimization, LangChain, LangGraph
**Software Engineering:** Code Debugging, Software Testing, Task Design, Automated Validation, Code Evaluation
**Core CS:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks
**Tools/Cloud:** Git, GitHub, Docker, AWS, Postman

## Projects

**Sahay – Customer Support Platform** *Next.js, Node.js, MongoDB, Redux, Gemini API, Scalekit*

Live Demo | GitHub

- Developed a customer-support platform enabling businesses to configure and deploy AI assistants using custom knowledge bases and application-specific workflows.
- Implemented Google OAuth and email/password authentication with Scalekit and built an embeddable chatbot widget deployable on external websites through a generated JavaScript script tag.
- Integrated Gemini API for context-aware responses and developed a management dashboard for chatbot configuration, knowledge-base management, and deployment workflows.

**Pratham – Hospital Management System** *Next.js, React, Node.js, Express.js, MongoDB, Redux, Gemini API*

Live Demo | GitHub

- Developed a role-based hospital management platform supporting separate Admin, Doctor, and Patient workflows for appointment scheduling and patient record management.
- Implemented JWT authentication, protected routes, and role-based access control to enforce secure access across application workflows.
- Designed MongoDB data models and integrated backend application logic to manage user, appointment, and patient-related data.

**Marg – Career Management Platform** *Next.js, Prisma, PostgreSQL, Clerk, Gemini API, shadcn/ui*

Live Demo | GitHub

- Developed a career management platform supporting resume generation, role-specific cover letters, interview preparation, and personalized career feedback.
- Integrated Gemini API for AI-assisted content generation and implemented protected authentication with Clerk.
- Structured application data with Prisma ORM and PostgreSQL, supporting persistent user workflows and career-related application data.

## Education

**Ajay Kumar Garg Engineering College** Ghaziabad, India

Bachelor of Technology in Computer Science and Engineering Oct 2023 – Expected June 2027

CGPA: **8.1/10**

## Achievements

- Ranked among the **Top 150 teams out of 1,000+ participating teams** at the **Executive 4.0 Hackathon, DTU**.
- Solved **200+ Data Structures and Algorithms problems** across LeetCode, CodeChef, and HackerRank.
- **DSA in Java Certification** – Udemy (2025) View Certificate