

ISHAAN GOSWAMI

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Education

Pandit Deendayal Energy University

July 2023 – July 2027

Bachelor of Technology (B.Tech) in Computer Science and Engineering, CGPA: 9.31

Ahmedabad, Gujarat

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming

Indian Institute of Technology Madras (IIT Madras)

September 2023 – July 2027

Bachelor of Science (B.S.) in Data Science and Applications (Online)

Chennai, Tamil Nadu

- **Relevant Coursework:** Modern Application Development, Business Data Management, Mathematics for Data Science

Work Experience

LawBot Express (lawbotexpress.com)

May 2026 – July 2026

Software Development Engineer Intern

Remote

- Identified and patched **2 security vulnerabilities** in production by auditing 15+ API routes: an unbounded 500KB payload write to PostgreSQL and a clickjacking exposure on auth pages; deployed Zod schema validation, request-size enforcement, and HTTP security headers via Next.js middleware.
- Designed and shipped an **AI-driven research planning feature** end-to-end: Drizzle ORM schema and SQL migration, 3-endpoint REST API (GET/PUT/POST) over Next.js App Router, and a streaming React component with SWR optimistic updates enabling real-time LLM-generated roadmaps.
- Built a **production observability stack** on Grafana Cloud (Loki, Prometheus, Tempo) with a Vercel log drain pipeline; created a 13-panel real-time dashboard and analyzed 2,190 log entries to surface **6 actionable findings** including a cost-critical API latency issue.

Projects

Cortex | Multi-Provider LLM Orchestration Platform | [Live Demo](#) | [GitHub](#)

React, Node.js, Express, Python, MongoDB, Redis, Docker, Kubernetes, Argo CD, GitHub Actions

- Architected a **microservices-based** platform with a task-aware routing layer across **4 LLM providers** (Groq, Cerebras, Gemini, OpenRouter), selecting optimal chains by input length and operation class with rate-limit-aware automatic fallback.
- Built the worker tier as a stateless Python service consuming tasks via **Redis BRPOP** (exactly-once delivery) on Kubernetes; decoupled file processing from the API lifecycle to keep response latency bounded.
- Shipped a **GitOps CI/CD pipeline** (GitHub Actions, Docker Hub, Argo CD with auto-sync and self-heal) and a CI-gated **LLM regression eval**: 50 versioned test cases **failing builds on >5pp pass-rate drop** per operation type.

Pitlane Live | F1 Race Analytics Platform | [GitHub](#)

Vue.js, Flask, FastF1, PostgreSQL, Nginx, Gunicorn, Render

- Built a **RESTful Flask API** serving F1 telemetry across 23 circuits to a Vue.js frontend with animated race replay, plus an automated post-race scoring engine evaluating user predictions within configurable tolerance windows.
- Engineered a configurable **telemetry processing pipeline** parsing raw positional data from FastF1 with interpolation for sub-second trajectory reconstruction, exposed through a scalable polling-based API.
- Built and deployed on **Azure VM** (Gunicorn + Nginx) with process-level isolation separating data ingestion from client-serving; later migrated to Render and Supabase PostgreSQL for cost optimization.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C++

Backend & APIs: Node.js, Express.js, Flask, Next.js, REST API Design, JWT Authentication

Frontend: React.js, Vue.js, HTML, CSS, Tailwind CSS

Databases: PostgreSQL, MongoDB, MySQL, SQLite, Redis, Celery

Cloud & DevOps: Docker, Kubernetes, GitHub Actions CI/CD, Argo CD, Azure, Nginx, Gunicorn, Grafana Cloud

Tools: Git, GitHub, Postman, Linux, VS Code

Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Microservices, System Design

Achievements

- **Amazon ML Summer School 2026:** Finalist
- **GATE 2026:** Qualified in Computer Science & Engineering (CSE)
- **Codeforces:** Specialist ([Profile](#)) | **Leetcode:** Knight (1650 Rating) ([Profile](#)) | **HackerRank:** 5-Star Python & SQL ([Profile](#))