Ayaz Deraiya

+91-9099046674 | ayazderaiya431@gmail.com | Vadodara, Gujarat, India
GitHub | LinkedIn | LeetCode | Codeforces | CodeChef | AtCoder

Education

Pandit Deendayal Energy University (PDEU), Gandhinagar 2023 – 2027
Bachelor of Technology, Information and Communication Technology *CGPA: 8.27/10*

Technical Skills

Languages: Java, Python, C++
Core CS: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Low-Level Design, High-Level Design
Backend: REST APIs, WebSockets, Distributed Systems
Frameworks: Spring Boot, Spring Security, Spring AI, Django, React
Databases & Tools: PostgreSQL, MongoDB, Redis, Docker, GitHub Actions, AWS EC2, Linux

Projects

Online Judge and Contest Platform | *Java, React, PostgreSQL, Docker* Source Code

- Built an online judge with coding and MCQ problems, scheduled contests with standings, user profiles, and an admin portal where problems are published with ZIP test bundles of up to 500 cases.
- Submissions go through a PostgreSQL-backed job queue with idempotency keys, worker leases, and fenced result updates, which avoids duplicate or stale verdicts when workers retry or run slowly.
- Wrote a separate judge worker that runs C17, C++20, Java 21, and Python 3 code in nsjail sandboxes with no network access. Tested it on a published problem with 450 private cases. Login uses JWT, and the backend, worker, and frontend deploy separately with Docker Compose.

Distributed Task Orchestrator | *Java, Spring Boot, Redis, Spring AI, AWS* Source Code

- Built a task orchestrator in Java and Spring Boot with four workers (Planner, Researcher, Writer, Critic) that split a request into subtasks with dependencies and track the state of each one.
- Used Redis for task queues and shared workflow state, with a state machine per task, failure handling, and up to 5 retries.
- Added REST APIs, WebSocket updates for live progress, source checks and confidence scores on research output, and health endpoints. Deployed on AWS EC2.

Experience

Brainybeam Info-Tech Pvt. Ltd. May 2026 – Jun 2026
Python Intern *Python, Django*

- Built a Distributor Management System in Python and Django covering products, billing, and invoices with multiple products, on a 4-entity relational data model.
- Added automatic pricing, GST and discount checks, PDF invoices, QR-based public invoice verification, role-based login for customers and admins, and dashboards for revenue, payments, and sales.

Competitive Programming

- **LeetCode Guardian**, max rating **2169** (**Top 1.32%** globally); **Codeforces Specialist**, max rating **1460**, 280+ problems solved.
- **CodeChef 3-Star**, rating **1639**; **AtCoder 5 Kyu**, max rating **1082** (**Top 11.62%**).
- **ICPC India Preliminary Round:** team of 3 solved 3 problems in 2025; secured **3rd Rank** in our college in 2026.
- **1st Rank** at Code Optima and **3rd Rank** at Code Nova (both PDEU coding contests); **Top 20** out of 80+ teams at Code Wars, IIT Jodhpur.

Additional Activities

- Cleared the college-level round of **Smart India Hackathon** in two editions; reached the semi-final of **Tic-Tech-Toe**, a hackathon organized by DA-IICT.