

Dhruv Patel

COMPUTER SCIENCE STUDENT | STRONG IN C++, JAVA
& PROBLEM-SOLVING

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[LinkedIn](#) | [GitHub](#)

Objective

Aspiring Software Engineer with proficiency in Data Structures and Algorithms, problem-solving, and web development. Passionate about low-level programming, logic building, and IoT. I aim to leverage my skills in a dynamic environment to develop efficient and innovative solutions.

Experience

Intern – Web Application Development (Oracle APEX)

Hindalco Industries Ltd. – Birla Copper Unit, Dahej, Gujarat

June 2025 – July 2025

- Developed 4 enterprise-level applications as part of Hindalco's digital transformation initiative, using Oracle APEX, SQL, PL/SQL, HTML, CSS, JavaScript.
- Built a Water Chemistry Data Management System to digitize cooling & boiling water lab records with role-based access, interactive reports, and dynamic validations.
- Designed a Daily Production Reporting System for the Captive Power Plant, enabling real-time tracking of power generation, coal usage, and turbine performance.
- Created a CCR E-Logbook System for Continuous Copper Rod operations, incorporating shift-wise logging, causal factor tagging, and audit trails.
- Initiated and developed a Movie Booking Web App to practice full-stack concepts, implementing authentication, seat selection, and booking management.
- Collaborated with plant engineers, lab staff, and IT team to align digital workflows with real operational needs.

Education

SRM University, Chennai, B.Tech in Computer Science and Engineering

May, 2027

Major: Computer Science and Engineering

Year: 3rd Year | Expected Graduation: 2027 | CGPA: 9.50

Skills & abilities

- Programming Languages: C++, Java, Python, SQL, PL/SQL
- Web Development: HTML, CSS, JavaScript, Oracle APEX
- Database Management: SQL, PL/SQL, pgSQL
- IoT & Embedded Systems
- Problem-Solving & Logic Building

- Strong Presentation & Public Speaking Skills
- Leadership & Teamwork

Projects

- **Movie Booking Web Application** – Developed a responsive, full-stack ticket reservation system with user authentication, seat selection, booking history, and cancellation features. Strengthened skills in frontend (HTML, CSS, JavaScript) and backend integration.
- **Interactive Reports & Forms for Plant Operations (E-Logbook & Water Chemistry)** – Designed and implemented interactive reports and modular forms in Oracle APEX for:
 - CCR E-Logbook – Shift-wise logging with causal factor tagging, role-based access, and audit trails.
 - CPP Daily Production Reports – Power generation, coal usage, and turbine performance tracking.
 - Water Chemistry Management – Cooling & boiling water lab data entry with validations and trend reports.
- File Allocation Methods – Implemented different file allocation strategies to optimize memory usage.
- Railway User Interaction Website (haLo Rails) – Integrated Twilio API for emergency messaging.

Certifications

HackerRank (CSS, Java, Python - Basic, Problem Solving), Udemy (Data Structures in Python), Lego Education (Basic Robotics), Tech Radianc (Solar Workshop, AI)

Extracurricular & Interests

- Regularly participate in college-level seminars, hackathons, and technical discussions on Computer Science topics.
- Exploring modern frameworks and advanced development tools for full-stack and IoT-based solutions.
- Currently enhancing skills in Backend Development with a focus on SQL, PL/SQL, and enterprise application workflows.