Vimal Dhandapani

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Professional Summary

Results-driven mechanical engineering student with advanced proficiency in Java, Python, and SQL. Demonstrated expertise in object-oriented programming and database management through academic projects. Achieved 4-Star Python certification on HackerRank and solved 50+ algorithmic challenges.

Technical Skills

- **Problem-Solving & Modeling:** Data Structures & Algorithms, Time Complexity Analysis, HackerRank 4-Star Python

- **OOP Concepts:** Inheritance, Encapsulation, Polymorphism, Design Patterns (Singleton, Factory)

- **Database Management:** SQL (CRUD, Joins), Normalization, ACID Compliance

- **Tools:** Git, VS Code, IntelliJ, MySQL

Projects

Student Record Management System (Java) **(GitHub)**

- Designed console app using OOP principles, reducing data retrieval time by 30% via binary search

- Implemented CRUD with Java ArrayList and factory design pattern

ToDo CLI App (Python) **(GitHub)**

- Developed task manager with file persistence, 95% data integrity across 100+ sessions

- Integrated argparse for command-line interactions

Education

B.E. Mechanical Engineering   Expected 2026
KPR Institute of Engineering and Technology, Coimbatore
CGPA: 7.38 — Relevant Coursework: Database Fundamentals, Computational Thinking

Certifications

- Data Structures and Backend with Java (Coursera)   2026

- Frontend for Java Full Stack Development (Coursera)   2025

- 4-Star Python Proficiency (HackerRank)   2024

Leadership Experience

Secretary, Ignitrron Technical Club   2023–2024

- Led Java/Python workshops for 100+ students, increasing participation by 40%

- Coordinated hackathons focused on retail-tech solutions

Achievements

- Ranked top 10% in college coding competitions   2023–2024

- Reduced code runtime by 35% in HackerRank challenges