TIRTH PATEL

📞 +91 70437 76534 | ✉ tirthpatel19075@gmail.com | 🔗 linkedin.com/in/tirth-patel-316915368 | 🔗 github.com/Tirth1907

EDUCATION

Vellore Institute of Technology India
Bachelor of Technology in Computer Science; CGPA: 8.22 / 10 *Oct 2022 – May 2026*

TECHNICAL SKILLS

Languages: C, C++
Frameworks / Engines: Unreal Engine, SDL
Cloud Platforms: AWS
Developer Tools: Visual Studio Code, GitHub, Makefile
Concepts: Data Structures and Algorithms, OOP, Operating Systems, DBMS

PROJECTS

Sales Management System | GitHub
- C++ real-estate sales management application to streamline property records, client data, and sales workflows.
- Implemented secure authentication, file-based persistent storage, and optimized data handling for reliability.
- **Tech Used:** C++, OOP, File I/O, STL (`std::list`), Data Structures, Makefile

Bike Racing Game | GitHub
- 2D side-scrolling racing game using C++ and SDL with event-driven rendering and responsive physics.
- Designed collision-detection routines and optimized frame rendering for smoother gameplay on limited hardware.
- **Tech Used:** C++, SDL, Game Loop Architecture, Collision Detection, Memory Optimization, Makefile

COURSES

Introduction to Natural Language Processing — Great Learning

Text Classification in NLP — Great Learning

Cyber Security Analyst — IBM

Acquiring Data — Accenture

ACHIEVEMENTS

Secured Rank 135 in the Zelestra × AWS ML Ascend Challenge among national participants.

Solved 100+ Data Structures and Algorithms problems on LeetCode, strengthening problem-solving proficiency.

Core Member of the FinTech Club, VIT Bhopal — coordinated technical workshops and collaborated on fintech projects.

AREAS OF INTEREST

Game Development, Cloud Computing, Automation Tools