Pratham Tomar

Phone: 7045976160
Email: partham68209@gmail.com ,
pratham.tomar23@vit.edu

Leetcode - https://leetcode.com/u/_pratham9914/

Software Engineer and Learner
Address: Pune, Maharastra - 411037

SUMMARY

Third-year B.Tech Information Technology student at VIT Pune (CGPA: 9.19) and Incoming Summer Intern at Barclays. Recognized for early-career excellence by securing a 2nd-year internship offer at a global financial institution. LeetCode Knight (Rating ~1900) with deep expertise in C++, Java, and Spring Boot. Focused on building scalable backend systems and custom AI/ML implementations. Active member of IEEE students Branch VIT Pune.

EDUCATION

Vishwakarma Institute of Technology — Pune
Information Technology — 2023-2027
CGPA: **9.19**

Kendriya Vidyalaya No.2 AFS Pune — Pune
CBSE (12th) — 2021-2023
Percentage: **92%**

SKILLS

- Languages: C++, Java, Python, SQL.
- Frameworks & Libraries: Spring Boot, SFML, OpenCV, NLP.
- Developer Tools: Docker, Git, GitHub, Visual Studio, Google Colab, Jupyter Notebooks.
- Databases: MySQL, MongoDB.

PROJECTS

URL Shortening Full-Stack Project | Spring Boot, Java, MySQL :

- Developed a full-stack URL shortening application using Spring Boot with a responsive frontend.
- Built RESTful APIs for generating short URLs, handling redirects, and managing link analytics.
- Implemented hash-based encoding with collision handling for efficient, unique URL mapping.
- Integrated secure token-based access and user authentication for managing links.
- Designed a dashboard to view usage statistics, emphasizing system efficiency and scalability.

Flappy Bird AI | C++, SFML, Neural Networks :

- Developed a Flappy Bird game in C++ using the SFML library.
- Designed and implemented a neural network from scratch without external ML frameworks.
- Enabled autonomous gameplay where the bird learns to control movement based on game state inputs.
- Implemented core mechanics including physics, collision detection, and real-time rendering.

YouTube Video Summarizer & Translator | Python, NLP :

- Developed a browser extension that automatically generates concise video summaries using NLP.
- Implemented real-time audio translation to convert spoken content into multiple languages.
- Designed the system to handle efficient audio processing and language translation.
- Focused on performance optimization for seamless user experience across different video lengths.

CERTIFICATIONS

- Contribution in Industrial Project with ISA
- OpenCV
- Introduction to Data Science by **CommonWealth Bank**