

JAYRAJ RATHI

Pune, India

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Education

Pune Institute of Computer Technology (PICT)

2023 – Present

B.E. in Information Technology — CGPA: 9.54

Pune, India

Ramsheth Thakur Public School, Kharghar

2021 – 2023

CBSE Class 12th: PCM + CS — 91.4%

Navi Mumbai, India

D.A.V. International School, Kharghar

2014 – 2021

CBSE Class 10th (with A.I. as Optional Subject) — 97.33%

Navi Mumbai, India

Coding Profiles

Codeforces: [cryuff14](https://codeforces.com/profile/cryuff14) Specialist (1560)

CodeChef: [lejaynd](https://www.codechef.com/users/lejaynd) 4* (1867)

Projects

Maze Generator & Solver Web App [🔗](#) | *Go, C++, JavaScript*

- Built a full-stack web app that lets users generate and solve mazes by choosing dimensions and algorithms (Kruskal's or Backtracking).
- Implemented maze logic in C++ using DSU for Kruskal, stack-based Backtracking, and BFS for solving.
- Integrated C++ engine with a Go backend via system calls, handling file I/O, validation, and rendering.
- Created an interactive grid-based frontend using HTML, CSS, JavaScript, with animated pathfinding and PDF export (jsPDF).

AskAI – Golang CLI Assistant [🔗](#) | *Go, MySQL*

- Built a CLI assistant using local LLMs (Gemma 2B via Ollama) to convert natural language into secure Bash commands.
- Developed a Go interface to interact with LLMs and implemented validation, [y/N] execution prompts, and flags like `--help`, `--dry-run`, `--history`.
- Used Go routines for smooth UX with non-blocking I/O and loading animations.
- Logged command history to a MySQL database via Go's database/sql package and Go SQL Driver.

Technical Skills

- **C++** (Proficient)
- **Go** (Proficient)
- **MySQL, Python, Java, HTML, JavaScript**
- **Linux** (Development and Shell Scripting)

Achievements

- Ranked **830 / 32,000+** in **Codeforces Round 1030 (Div. 2)**
- Secured ranks **148** in **Starters 193** and **167** in **Starters 167** on CodeChef
- Won multiple medals in **SOF** and **SilverZone Science and Maths Olympiads**

Extracurricular Activities

- Keen interest in competitive programming with strong skills in algorithms and data structures.
- Solved over **650 problems** across Codeforces, CodeChef, CSES, and LeetCode.
- Represented college in the **Pune University Chess Tournament 2024**, and played at **State and National level** during school years.
- Member of the **PICT Chess Club** and **Entrepreneurship Development Cell (EDC)**.