

Hiren Joshi

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EDUCATION

Parul Institute of Technology, Vadodara

Bachelor of Technology in Computer Science

CGPA: 7.89

Sep. 2021 – May 2025

MPIA School, Sagwara

Completed HSC in Physics, Chemistry, Mathematics

Percentile: 95.80

July 2020 – July 2021

Ashirwad Niketan School, Diwara Chhota

Completed SSC with core subjects including Maths and Languages (Class Rank: 2nd)

Percentile: 89.50

March 2018 – March 2019

EXPERIENCE

C++ Developer (Summer Internship)

ByteXL

May 2024 – June 2024

Remote

- Developed **20+ C++ console applications**, applied **OOPs principles (encapsulation, abstraction)** to design **modular class hierarchies** for **extensible systems**. Engineered **memory-efficient solutions** using **raw pointers, STL containers**. Achieved **Valgrind-validated leak-free** core modules via **RAII-inspired manual memory management**.
- Designed **user-friendly console interfaces** with **robust input validation** and **error handling**, achieving **crash-free operations**.
- Wrote **modular, production-grade C++ code** adhering to **95% of Google Style Guide standards (RAII, const-correctness, 2-space indents)** with **highly readable code** through **necessity-driven comments**.

ACHIEVEMENTS

Competitive Programming

- Knight on LeetCode (Rated 1900+)**
- Weekly Contest 446: **Global Rank #609 | National Rank #132**
- Top 3% LeetCode** (All-Time National Rank: **5794/161,644**)
- 3.5 star coder** at LeetCode
- Solved **1800+ algorithmic problems (1200+ on LeetCode)**
- [LeetCode/hirenjoshi](https://leetcode.com/hirenjoshi) | [CodeFolio/hirenjoshi](https://codefolio.com/hirenjoshi)

Applied Problem Solving

- Algorithmic Rubik's Pyraminx Solver**: Manually solved using **permutations via backtracking**, derived **11 distinct patterns**, and achieved **blindfolded solves** – all **without external help**. [\[Video Walkthrough\]](#)

Core Strengths

- Rapidly identify and implement algorithm optimizations** for **maximum efficiency**.
- Developing **high-performance solutions** while maintaining **clean, readable code**.

Technical Efficiency

- 75-90 WPM typing speed**

TECHNICAL SKILLS

Languages: C/C++

Developer Tools: VS Code

Others: Data Structures and Algorithms, Operating Systems, Object-Oriented Design and Programming, Computer Networks, Database Management Systems

SOFT SKILLS

- Fluent in English** (Written and Verbal), with strong communication and presentation skills.
- Strong teaching skills** with the ability to explain complex technical concepts clearly.