Hiren Joshi

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EDUCATION

Parul Institute of Technology, Vadodara	CGPA: 7.89
Bachelor of Technology in Computer Science	*Sep. 2021 – May 2025*
MPIA School, Sagwara	Percentile: 95.80
Completed HSC in Physics, Chemistry, Mathematics	*July 2020 – July 2021*
Ashirwad Niketan School, Diwara Chhota	Percentile: 89.50
Completed SSC with core subjects including Maths and Languages **(School Rank: 2nd)**	*March 2018 – March 2019*

EXPERIENCE

C++ Developer (Summer Internship) — May 2024 – June 2024
ByteXL — *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 | CodeFolio/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.