

Manavkumar Patel

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🌐 [Manavkumar Patel](#)

EDUCATION

UNIVERSITY INSTITUTE OF TECHNOLOGY RGPV

B.Tech in Computer Science and Engineering

2020 - 2024 | Bhopal, MP

CGPA: 8.74

RUKMANI DEVI PUBLIC SCHOOL

2020 | 12th - 93%

ST JOSEPH'S CO-ED SCHOOL

2018 | 10th - 92.2%

LINKS

- [Codeforces](#) 🔗
- [LeetCode](#) 🔗
- [GitHub](#) 🔗
- [LinkedIn](#) 🔗
- [CodeChef](#) 🔗
- [AtCoder](#) 🔗

SKILLS

Relevant Courses:

System Design

Object-oriented programming

Operating Systems

Data Structures & Algorithms

Database Management systems

Computer Networks

Programming Languages:

C, C++, JavaScript, Ruby, HTML, CSS.

Frameworks:

React, Node.js, Express.js, Mongoose,

Bootstrap v5.0, Ruby on Rails

Developer Tools:

Linux, Git, OpenGL, MongoDB, Vercel,

AWS, Docker, Github

SIDE PROJECTS

RAYCASTER | [GITHUB](#)

C, OpenGL, Algorithms

- C raycaster is a program that simulates a 3D environment by casting rays from the player's position and calculating the intersections with objects in the scene.

CERTIFICATES

Meta Hacker Cup | Google Kickstart
ACM ICPC

EXPERIENCE

MERCLE | SDE I

June 2024 - August 2024 | Bangalore, KA

- Developed a blockchain indexer that stores **more than 50 GB** of transaction details everyday across multiple chains using Node.js.
- Optimized database query performance by implementing **B-tree indexes** in PostgreSQL, resulting in a **90% improvement** in search efficiency.
- Created a user reputation scoring system by analyzing **300,000 transactions**, coding up the calculations, and visualizing results with Google Charts.
- Implemented server-side multichain transaction parsing and wrote **30+ unit tests** in Node.js using Chai and Mocha.

ELITMUS | SDE INTERN

2023 | Bangalore, KA

- Build a collaborative code-editor and whiteboard that directly impacts the hiring process and scales to **10,000 concurrent connections**.
- Implemented real-time code editing, drawing and sharing capabilities using **Websockets** and YJS (CRDT) for **Concurrency Management**.
- Lead the **End-to-End** development of a Web IDE complete with features like syntax highlighting, multi-file editing and a Whiteboard using MERN stack.
- Followed **Test Driven Development** in Jest & Deployed on AWS using Docker.

ACHIEVEMENTS

- Highest rating of **1660 Expert** at Codeforces (**Top 2%** in India).
- Highest rating of **4*** at CodeChef.
- Our team secured an honorable mention with **All India Rank 96** out of 1500+ teams from different universities across India in the ICPC Amritapuri regionals.
- **Three times** ICPC regionalist.
- Qualified to Round 2 of the **Meta Hacker Cup** by being in the **Top 4%** of all participants globally.
- Achieved **Global Rank 33 (Top 1%)** out of 3200 participants globally in the Newton's coding challenge June 2022.
- Solved **more than 1100** problems on Codeforces of varying difficulties & topics.

PROJECTS

FINN'S ADVENTURE | [LIVE](#) | [GITHUB](#)

Node.js, React.js, nodemailer, d3.js, JWT

- Created a full-stack web app that aims to assess the soft skills of the candidates using an interactive **gamified puzzle**, complete with several levels, a user leaderboard & user analytics using d3.js.
- Implemented **JWT authentication**, an admin dashboard with user data analysis, and prevented data loss during page refresh.
- Implemented React.js to develop the complete Frontend of the website and integrated with a node.js backend with all data being stored in MongoDB.

PROBLEM TRAINER | [LIVE](#) | [GITHUB](#)

MongoDB, Express.js, Node.js, React.js

- Developed a Full-stack **CRUD-based** Web App where users can list coding problems with an automated status using **Codeforces API**.
- Implemented React.js to develop the complete frontend of the website & all entries are saved in a MongoDB database.
- Integrated Node.js Backend for creating, deleting and reading problems from the database and other live functions.