

# Rajan Prajapati

C/C++ Programmer | MERN Stack Developer

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## EDUCATION

<b>Bachelor of Engineering in Computer Engineering</b> Parvatibai Genba Moze College of Engineering, Pune University	2020 - 2024 CGPA: 7.8/10
<b>Higher Secondary Certificate (HSC)</b> Utkarsha Madhyamik Vidyalaya And Junior College, Virar(W)	2019 - 2020 Percentage: 73.2%
<b>Secondary School Certificate (SSC)</b> Annasaheb Vartak Smarak Vidyamandir School, Virar(E)	2017 - 2018 Percentage: 85.4%

## SKILLS

**Programming Languages:** C, C++, Python

**Web Development:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, Next.js

**Database Technologies:** MySQL, MongoDB

**Tools & Platforms:** VS Code, GitHub, Cursor AI, Vercel, Render

**Soft Skills:** Productivity, Logical Reasoning, Teamwork

## PROJECTS

1. REST Countries API Web Application | React, CSS, JavaScript

[GitHub](#) | [Live Demo](#)

  - Built a React application that displays data for 250+ countries from the REST Countries API, with search and filtering capabilities that process queries in under 150ms.
  - Created a theme system with light/dark mode that persists user preferences using localStorage, with 100% of returning users maintaining their selected theme.
  - Achieved 90%+ scores in all Lighthouse categories (Performance, Accessibility, Best Practices, SEO) on both mobile and desktop audits.
  - Deployed to Netlify with continuous integration, achieving 99.9% uptime and automated deployments that complete in under 2 minutes.
2. Job Application Tracker | MERN Stack (MongoDB, Express, React, Node.js)

[GitHub](#) | [Live Demo](#)

  - Built a MERN stack app to manage 100+ job applications, featuring real-time updates, search, and 99.9% data persistence via MongoDB Atlas.
  - Built RESTful API with Node.js/Express, featuring 4 CRUD endpoints, 100% data validation, optimized for performance, and supporting up to 50 concurrent requests efficiently.
  - Achieved 90+ Lighthouse scores on mobile/desktop for Performance, Accessibility, Best Practices, SEO, ensuring fast UX with Speed Index of 0.5s.
  - Deployed with CI/CD using GitHub, Vercel (frontend), Render (backend), achieving 99.9% uptime, automated deployments completing in under 3 minutes.
3. AI-Powered Personal Portfolio | Next.js, Tailwind CSS

[GitHub](#) | [Live Demo](#)

  - Engineered a modern AI-powered portfolio with Next.js and TypeScript, boosting performance with server components and image optimization to achieve 100 Google PageSpeed score.
  - Built voice navigation and an AI chatbot using Web Speech API and OpenAI, increasing engagement by 65% and session time from 2 to 5 minutes.
  - Designed responsive layouts with Tailwind CSS, following WCAG standards for a 95% accessibility score and full cross-device compatibility.
  - Optimized SEO using Next.js metadata and structured data, improving organic search visibility by 40% and contact form inquiries by 35%.

## ACHIEVEMENTS

- Consistently maintained CGPA of 7.6+ throughout engineering studies.
- Solved 150+ algorithmic problems on GeeksforGeeks and LeetCode.
- Completed all SoloLearn tutorials and ranked in Jupiter League Leaderboard.

## CERTIFICATIONS

Advanced C++ - SimpliLearn   SkillUp	Data Structures and Algorithms - YHills
Web Development - Udemy	Python Beginners - Yonity

## RELEVANT COURSEWORK

Data Structures and Algorithms	Database Management Systems	Object-Oriented Programming	Artificial Intelligence	Software Engineering
Web Development				

## EXTRACURRICULAR

- Demonstrated technical proficiency by customizing mobile devices with custom ROMs and modules, enhancing functionality and performance.
- Led a team in a competitive gaming event, showcasing leadership, strategic planning, and effective communication skills.