

ANKIT RAJ

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Education

Lovely Professional University, Punjab

B.Tech in Computer Science & Engineering

Expected Graduation: 2026

8.4/10 CGPA

Indian Public School, Bihar

Class-XII

2020-2022

84%

Projects

Blog-website : NodeJs, ExpressJs, MongoDB, Restful APIs, Embedded JavaScript(EJS)

[Source Code](#)

- A Node.js project implementing robust **authorization** and **authentication** mechanisms through **RESTful APIs**, utilizing **MongoDB** as the database for efficient and scalable data management.
- A user-friendly, feature-rich editor is available for bloggers to easily create, edit, and update their posts at any time.
- Implemented server-side rendering (SSR) with EJS to enhance performance and deliver dynamic web pages efficiently.

Real-estate marketplace : ReactJs, Restful APIs, NodeJs, ExpressJs, Tailwind, Firebase

[Source Code](#)

- Developed a React-based frontend with intuitive Home, Registration, and Login pages, ensuring a seamless user experience.
- Integrated **Google Authentication** using Firebase Authentication API for secure and seamless user login.
- Utilized **Tailwind CSS** to enhance the visual appeal of the website and **optimize** the overall user experience.
- Employed **bcrypt.js** for secure password hashing and to generate random passwords for users authenticated via Google.

Technical Skills

Languages: C++, C, JavaScript

Backend: Node.js, Express.js

Frontend: React.js, TailwindCSS, HTML, CSS, Bootstrap

Databases: PostgreSQL, MongoDB

Web Technologies: Docker, Socket.IO, Appwrite, Firebase

Developer Tools: Postman, VS Code, GitHub, Git

Operating Systems: Windows, Linux

Algorithmic Competitions/Achievements

Leetcode | Rating - 1491

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- Solved over **400** problems covering all key topics in **Data Structures and Algorithms**, including more than 100 **advanced-level** challenges.
- Consistently demonstrated problem-solving skills, achieving a **rating of 1500** on LeetCode through dedicated effort.
- Proficient in advanced topics such as **graph theory**, **segment trees**, and **dynamic programming (DP)**.

CodeChef | 3 ★

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- Currently hold a **rating of 1592** on CodeChef, reflecting **strong problem-solving** abilities.
- Achieved a global rank of **593** in **CodeChef Starter 120**, demonstrating **competitive programming proficiency**.
- Secured an India rank of **16,113** in CodeChef competitions, highlighting consistent performance at a national level.

Certifications

Generative AI with LLM (Large Language Models)

[Verify](#)

Coursera Completed: [January, 2024]

- Covered advanced topics such as **transformers**, **attention mechanisms**, and **neural network optimizations**
- Explored the **architecture** and implementation of large language models (LLMs)
- Learned to develop, **fine-tune**, and deploy LLM-based solutions

Dynamic Programming and Greedy Algorithms

[Verify](#)

Coursera Completed: [May, 2024]

- Mastered key concepts in **dynamic programming (DP)**, including **optimal substructure** and **overlapping subproblems**
- Gained in-depth knowledge of **greedy algorithms** and their application to solve optimization problems efficiently
- Developed and implemented efficient algorithms to solve complex problems such as **knapsack**, **shortest path**, and **scheduling**.