

Abhay Kapale

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SUMMARY

Computer Science undergraduate specializing in Information Security with strong foundations in Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, and Computer Networks. Passionate about building secure, scalable, and high-performance software systems while solving real-world engineering problems.

EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science Engineering specialising in Information security

Vellore, India

2024 – 2028

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, TypeScript

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, OS, Computer Networks, DBMS

Frameworks & Backend: Node.js, Express.js, REST APIs, Next.js, React

Databases: PostgreSQL, MongoDB

Tools & Platforms: Git, GitHub, Linux, Postman, VS Code

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration

PROJECTS

Browser-based Web IDE | Next.js, TypeScript, WebContainers, Node.js

- Developed a browser-based IDE enabling full-stack JavaScript development using WebContainers.
- Built an integrated workspace featuring a Monaco editor, terminal, file explorer, live preview, and project dashboard.
- Designed RESTful APIs with secure authentication and persistent workspace management.
- Engineered a modular architecture supporting scalable project creation, code execution, and optional AI-assisted development.

Blogging Platform | React, Node.js, Express, MongoDB

- Developed a full-stack blogging platform implementing JWT-based authentication and role-based authorization for secure user access.
- Designed RESTful APIs supporting user authentication, blog creation, editing, and deletion using Express.js and MongoDB.
- Built responsive user interfaces using React while following component-based architecture and reusable design principles.
- Performed API testing and debugging using Postman to ensure reliable backend functionality and secure request handling.

EXTRACURRICULAR ACTIVITIES

- Volunteered at Gravitas 2025, contributing to the successful organization of one of VIT's largest technical festivals.
- Collaborated in team-based software development projects following Git-based version control workflows.
- Actively participate in technical learning communities focused on software engineering and backend development.
- Actively engage in competitive programming and continuous learning to strengthen problem-solving and algorithmic thinking.