

# Shivansh Nigam

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## Education

<b>Maulana Azad National Institute of Technology (NIT Bhopal)</b> <i>Bachelor of Technology in Electrical Engineering</i>	2023 – 2027 Bhopal, Madhya Pradesh
<b>Madhya Pradesh Board of Secondary Education (MPBSE)</b> <i>Senior Secondary</i>	2021 – 2022 Vidisha, Madhya Pradesh
<b>Central Board of Secondary Education (CBSE)</b> <i>Secondary</i>	2019 – 2020 Vidisha, Madhya Pradesh

## Experience

<b>Pratinik Infotech Pvt. Ltd.</b> <i>Software Development Intern</i>	Jul 2025 – Sep 2025 Remote
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- Developed a task management web application using React.js, Node.js, and MongoDB with JWT-based authentication and CRUD operations.
- Enhanced usability and productivity by adding real-time updates and responsive layouts for seamless collaboration.

## Projects

<b>AI Powered Resume Builder</b>   <i>React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Google Gemini AI, ImageKit</i>	
<ul style="list-style-type: none"><li>Built and deployed a full-stack AI-powered resume builder that enables users to create, edit, and share professional resumes with customizable templates.</li><li>Integrated Google Gemini AI for intelligent resume optimization and ImageKit for seamless image upload and background removal.</li><li>Developed the frontend with React.js and Tailwind CSS, and implemented a Node.js + Express.js backend with MongoDB for secure user data management.</li></ul>	
<b>Route / Navigation Engine</b>   <i>C++, Node.js, Redis, Graph Algorithms</i>	
<ul style="list-style-type: none"><li>Designed and implemented a high-performance route navigation backend using <b>Dijkstra</b> and <b>A*</b> algorithms on graph-based geospatial data.</li><li>Built a <b>C++ core routing engine</b> and exposed it via a <b>Node.js REST API</b> for efficient query handling.</li><li>Integrated <b>Redis caching</b> for repeated route queries, achieving near-zero latency on cache hits.</li><li>Benchmarked A* against Dijkstra to analyze heuristic-based performance improvements under repeated route queries.</li></ul>	
<b>Video Hosting Platform – Backend</b>   <i>Node.js, Express.js, MongoDB, JWT, Multer, Cloudinary</i>	
<ul style="list-style-type: none"><li>Built a modular backend for a video hosting platform supporting secure user authentication, video uploads, subscriptions, and profile customization.</li><li>Implemented JWT-based access and refresh tokens with secure cookies and token refresh workflows for persistent sessions.</li><li>Integrated Cloudinary for avatar and cover uploads and optimized asynchronous operations for scalable performance and maintainability.</li></ul>	

## Technical Skills

**Programming:** C++, JavaScript (ES6+), TypeScript, Python (basics)  
**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, SCSS  
**Backend:** Node.js, Express.js, RESTful APIs, MongoDB, JWT Authentication  
**Developer Tools:** Git, GitHub, VS Code, Postman, Chrome DevTools, npm  
**Design & Utilities:** Figma, Shopify, WordPress, ImageKit, Cloudinary  
**Core CS Skills:** Data Structures & Algorithms, Problem Solving

## Achievements

- Solved **400+ Data Structures and Algorithms problems** across LeetCode, Codeforces, and GeeksforGeeks, demonstrating strong analytical and coding proficiency.
- Ranked in the **top 2% among 1M+ candidates** in **JEE Main 2023**, reflecting exceptional academic excellence.