

# Ayush Katiyar

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## EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech EE	Maulana Azad National Institute of Technology	NIT Bhopal	8.23	2021-2025
Senior Secondary	Kendriya Vidyalaya Sangathan(KVS)	CBSE	92%	2020
Matriculation	Kendriya Vidyalaya Sangathan(KVS)	CBSE	87.2%	2018

## EXPERIENCE

### • Springfield Olympiads

FullStack Intern

Remote

- Created, optimized, and tested over 200 + RESTful APIs for the e-commerce platform, ensuring seamless integration and core functionality for both the website and the admin panel.
- Implemented `node-cache` to optimize data retrieval, reducing API response times by 30%, and used `node-cron` for automating transaction processing and review management, improving system efficiency.
- Collaborated with frontend teams to ensure seamless API integration and user-friendly UI/UX design.

## TECHNICAL SKILLS AND INTERESTS

<b>Programming Languages:</b>	C/C++, Python, HTML, CSS, JavaScript, TypeScript
<b>Cloud/Databases:</b>	MongoDB, MySQL, PostgreSQL, Prisma
<b>Developer Tools:</b>	Node.js, JSON, VS Code, Git, GitHub, Postman, MySQL Workbench, MATLAB
<b>Libraries and Frameworks:</b>	Express.js, Tailwind CSS, Bootstrap, React.js, Redux, Next.js, JWT, Zod, Axios
<b>Relevant Coursework:</b>	DSA, OOPs, Fundamental of Electrical Engineering

## PERSONAL PROJECTS

### • Visulax

Algorithm Visualizer ([🔗Live](#))

 GitHub

June 2024 - Present

HTML | CSS | JavaScript | Node.js | MongoDB | Express.js | bcrypt | Zod

- Constructed a platform featuring over 10+ interactive visualizations to simplify intricate algorithms.
- Established secure REST API endpoints (`/signUp` and `/signIn`) utilizing MongoDB, Zod, and bcrypt.
- Algorithms covered: **Sorting** (Bubble, Selection, Heap, Insertion, Merge, Quick), **Searching** (Linear, Binary, Jump, Exponential), **Binary Trees**, **Graphs** (DFS, BFS), **Sieve of Eratosthenes**, **Recursion** (N Queen, Rat in a Maze).

### • User-Authentication: API/UI

Empowering Secure Access ([🔗Live](#))

 GitHub

December 2023

Next.js | TypeScript | MongoDB | Tailwind CSS | bcrypt | Axios | JWT

- Developed a resilient Next.js/Typescript application leveraging MongoDB for robust user authentication.
- Used bcrypt for secure password hashing and Tailwind CSS for a modern UI, while integrating real-time validation to reduce input errors by 30%.

### • eBook Haven

Digital Bookshelf ([🔗Live](#))

 GitHub

March 2024

- Designed and built a user-friendly MERN stack web application for efficient book collection management. Implemented comprehensive CRUD operations and intuitive functionalities for uploading, viewing, editing, and deleting entries. Optimized codebase readability by 35%, reducing lines of code by 25% and improving maintainability.
- Technologies Used:
  - \***Frontend:** React, React Router DOM, Axios, React Icons, Notistack, **Tailwind CSS**.
  - \***Backend:** Node.js with Express for REST API, Mongoose for database management, **Multer** for file uploads.

## ACHIEVEMENTS

- Solved over 1400+ coding problems focusing on Data Structures and Algorithms across multiple coding platforms.
- Coding Profile (rating) : [Leetcode 800+](#) Problem Solved, (1686) | [Code360](#) Master, (2838) | [Codeforces](#) (1338)
- Mastered 17+ advanced graph techniques during a 3-day camp led by Manas Kumar Verma. [Certificate](#)
- Secured a spot in the top 15 teams in Flipkart Grid 6.0, out of 17,000 competitors.