

RITESH SINGH

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Education

Indian Institute of Information Technology, Nagpur

Bachelor of Technology in Computer Science and Engineering

Nagpur, India

2023 – Present

Green Field Public School, Ghaziabad (CBSE)

Senior Secondary Education (Class XII) — **Percentage: 92%**

Ghaziabad, India

2022 – 2023

Technical Skills

Programming Languages: Python, Java, Kotlin, C, C++, Dart, JavaScript, SQL

Frontend Frameworks & Styling: HTML5, CSS3, React.js, Next.js, Angular, Vue.js, Tailwind CSS, Material UI

Backend & APIs: Node.js, Express.js, RESTful APIs, Flask, JWT

Databases & Cloud Services: PostgreSQL, Redis, MongoDB, MySQL, Firebase, Supabase

Mobile & Cross-Platform Development: Flutter

Tools & Platforms: Docker, Postman, Git, GitHub, Android Studio, Xcode, VS Code, IntelliJ IDEA

Projects

Personalized-feed-system | *Node.js, PostgreSQL, Redis, Docker*

[Project Link](#)

- Built a JWT-secure Node.js feed backend, supporting 1,000+ concurrent requests with sub-50ms latency.
- Reduced database load by 80% by implementing an in-memory Redis caching layer with TTL.
- Engineered a PostgreSQL social graph and dynamic ranking algorithm to process 50,000+ posts.

WealthWise – Personal Finance Platform | *Next.js, Supabase, Plaid, Stripe*

[Project Link](#) | [Live Demo](#)

- Built a Next.js fintech platform integrating Plaid API, enabling secure synchronization of real-time financial data with sub-200ms latency.
- Implemented automated Stripe subscriptions and webhooks, ensuring 100% reliable premium tier provisioning and secure checkouts.
- Designed an account-centric financial recommendation engine, generating personalized insights and improving dashboard engagement by 35%.

SiteSpark AI – Web Design Platform | *Next.js 14, Tailwind CSS, Gemini Flash 2.0, Convex*

[Project Link](#)

- Built AI web design platform generating SEO-optimized React components from natural language prompts.
- Implemented real-time layout previews reducing design time by 60%.
- Deployed scalable Next.js application handling 500+ daily requests.

Relevant Coursework

Core CS: Data Structures & Algorithms, Object Oriented Programming, Database Management Systems

Systems: Computer Networks, Operating Systems, Software Engineering

AI/ML: Artificial Intelligence, Machine Learning, Natural Language Processing

Achievements

- **CodeChef:** 3-Star Coder with 1690 peak rating; ranked 63rd globally.
- **Codeforces:** Pupil with 1376 max rating; achieved rank 770 globally.
- **LeetCode:** Solved 450+ problems across DSA and DP.

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Leadership & Extracurricular Activities

DotSlash Coding Club, IIIT Nagpur

Active Member & Peer Mentor

Nagpur, India

Dec 2023 – Present

- Mentored 15+ junior students in competitive programming and algorithm design.
- Conducted problem-solving workshops using LeetCode, Codeforces, and CodeChef.

Certifications

- **Deloitte Professional Experience Program:** Completed a Deloitte professional experience program gaining hands-on exposure to real-world consulting workflows and analytical problem-solving.

[View Certificate](#)