

# Adarsh Singh

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## Education

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<b>Vellore Institute of Technology</b> , Bhopal, MP Bachelor of Technology in Computer Science and Engineering (CGPA: 8.77)	2023 – 2027
<b>Kendriya Vidyalaya (CBSE)</b> , Ghaziabad, UP Class 12th: 86.2% Class 10th: 91.2%	2021 – 2022 2019 – 2020

## Experience

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- Web Lead** — AI Club VIT Bhopal (React, Framer, GSAP) Mar 2024 – Present
- **Developed and maintained** a responsive and micro-interaction-rich website for the AI Club.
  - **Utilized React.js and Framer Motion** to deliver optimal performance and rich interactivity.
  - **Collaborated on UI/UX iterations** with club members to highlight AI Club events and drive traffic.

## Projects

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- Skill Swap Platform** — React.js, Express, Prisma, JWT, MongoDB [Repo](#)
- **Utilized Prisma and MongoDB** for schema management and storage with secure JWT auth.
  - **Engineered an optimized Express backend** for matchmaking and collaborative learning sessions.
  - **Implemented automated JWT refresh** for uninterrupted sessions and improved UX.
  - **Added caching** to reduce unnecessary requests and improve performance.
  - **Contributed collaboratively** with a fellow developer.
- Digital Twin** — React, Hono, Postgres, BetterAuth [Repo](#)
- **Built a personalized AI assistant** that learns and mimics user personality; implemented the “Generative Agent Simulations of 1,000 People”.
  - **Implemented typed tool-calls** (mail, news summarization, context-aware replies) with strict JSON schemas, idempotency keys, bounded retries, and per-tool concurrency limits.
  - **Architected an edge Hono backend** with SSE streaming, input validation, rate limiting, and signed webhooks.

## Technical Skills

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**Languages/Frameworks:** C++, JavaScript, Java, React.js, Next.js, Redux, Prisma, MongoDB, Go  
**Developer Tools:** VS Code, Postman, Git/GitHub, Firebase, Cloudflare, AWS

## Achievements

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- **Top 50 / 300 teams** in VIT Bhopal x Johns Hopkins Health International Hackathon.
- **300+ problems solved** across Codeforces, LeetCode, and CodeChef.
- **Pupil rank on Codeforces**, maximum rating 1218.
- **Top 10 / 400 teams** in GDGC hackathon hosted by LNMIT Jaipur.

## Certificates

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- **Networking Basics (Cisco)** — [Certificate](#).
- **Cloud Computing (NPTEL)** — [Certificate](#).