Vinayak Chaturvedi

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Education

Vellore Institute Of Technology, Bhopal — *Madhya Pradesh, India*
B.Tech, Computer Science & Engineering — *Sep 2022 – Sep 2026*
Cumulative CGPA: 8.35

Lancers Army School, Surat — *Gujarat, India*
Class XII – CBSE — *Apr 2020 – Apr 2021*
Percentage: 84.4%

Lancers Army School, Surat — *Gujarat, India*
Class X – CBSE — *Apr 2018 – Apr 2019*
Percentage: 94.4%

Skills

Languages/Tools: C/C++, JavaScript, Git
Libraries/Frameworks: React, Next, Express, Tailwind CSS
Runtime: Node.js   **API Design:** REST   **Databases:** MySQL (SQL), MongoDB (NoSQL)
Cloud Deployment Services: AWS (EC2, S3), Docker
Coursework: OOP, DBMS, Networking, DSA
Problem-Solving: Solved DSA problems across multiple platforms.
Soft Skills: Leadership, Adaptability, Writing, Problem-Solving, Time Management

Projects

SubsTracker ↗ — *Node.js, Express.js, MongoDB, JWT, Upstash, Arcjet*

- Developed a production-grade **Subscription Management System API** enabling secure user authentication, subscription tracking, and automated reminder workflows.
- Engineered a modular **Node.js–Express.js backend** integrated with **MongoDB (Mongoose)** for data persistence, **JWT** for authentication, **Upstash** for background task automation, and **Arcjet** for rate limiting and API protection.
- Designed for **real-world deployment** on AWS, Oracle VPS, or Vercel — enabling integration into SaaS platforms and payment systems to enhance automation, reliability, and user retention.

EventHub ↗ — *Next.js, TypeScript, Tailwind CSS, MongoDB, Cloudinary, PostHog*

- Developed an end-to-end **Event Management Platform** enabling users to create, display, and manage live or upcoming events with registration, media uploads, and real-time analytics tracking.
- Built using a full-stack **Next.js 16** architecture with **TypeScript** for type safety, **Tailwind CSS** for responsive UI, and **MongoDB (Mongoose)** for data persistence; integrated **Cloudinary** for image management and **PostHog** for engagement analytics.
- Designed for **real-world scalability** — ideal for community event hubs, SaaS dashboards, and conference platforms — offering seamless integration, optimized caching, and actionable usage insights.

Achievements

- Actively participated in multiple **technical events and coding competitions** organized at Vellore Institute of Technology, demonstrating strong problem-solving and collaboration skills.
- Earned the **"The Bits and Bytes of Computer Networking" certification from Google**, validating fundamental computing and networking concepts.
- Successfully completed the **"Marketing Analytics" certification from NPTEL**, gaining insights into data-driven decision-making, consumer behavior analysis, and strategic market evaluation.
- Participated in several **hackathons and innovation challenges**, contributing to the design and implementation of practical software solutions under real-world constraints.
- Recognized for consistently maintaining a balance between **technical and analytical proficiency**, integrating business awareness with engineering problem-solving to drive impactful project outcomes.