

# Vinayak Chaturvedi

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## 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)**, **JWT**, **Upstash**, and **Arcjet** for secure, scalable automation.
- Designed for **real-world deployment** on AWS, Oracle VPS, or Vercel — enabling integration into SaaS platforms and payment systems.

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

- Developed an end-to-end **Event Management Platform** allowing users to create, manage, and register for events with integrated analytics.
- Built with **Next.js 16**, **TypeScript**, **Tailwind CSS**, and **MongoDB (Mongoose)**; integrated **Cloudinary** for image hosting and **PostHog** for engagement tracking.
- Designed for **real-world scalability** — ideal for community hubs and SaaS dashboards with optimized caching and performance.

**SwiftCart** — *React.js, React Router, Context API, CSS, Mock JSON Backend*

- Built a modern, fully responsive **eCommerce web application** featuring dynamic product listings, search filters, interactive product pages, and a smooth multi-step checkout flow.
- Implemented efficient **state management with Context API**, intuitive navigation using **React Router**, and seamless UI with **Tailwind CSS**; integrated a **mock JSON backend** to simulate real-world API operations such as cart updates, product retrieval, and order tracking.
- Designed as a **production-ready frontend system** showcasing best practices in modular React architecture, reusable components, scalable folder structure, and high-performance user experience.

## Experience & Achievements

- Led a team to develop a **Capstone Group Management System** that streamlined group creation, automated supervisor allocation, and implemented unique identification controls — significantly improving workflow efficiency for college administrators.
- Earned the “**The Bits and Bytes of Computer Networking**” **certification from Google** , validating fundamental computing and networking concepts.
- Participated in several **hackathons and innovation challenges**, contributing to the design of practical real-world software solutions.

## Skills

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

## Education

**Vellore Institute Of Technology**  
B.Tech, Computer Science & Engineering  
**Cumulative CGPA:** 8.35

*Madhya Pradesh, India*  
*Sep 2022 – Sep 2026*

**Lancers Army School, Surat**  
Class XII – CBSE  
Percentage: 84.4%

*Gujarat, India*  
*Apr 2020 – Apr 2021*

**Lancers Army School, Surat**  
Class X – CBSE  
Percentage: 94.4%

*Gujarat, India*  
*Apr 2018 – Apr 2019*