

Aditya Raj

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Summary

Computer Science Engineering student with hands-on experience building full-stack web applications using modern frontend and backend technologies. Skilled in designing REST APIs, managing relational databases, and deploying scalable services using Node.js, PostgreSQL, and Supabase. Experienced with React and Next.js on the frontend, with a track record of shipping production-grade applications from schema design to deployment.

Technical Skills

Programming Languages: TypeScript, Python, C++

Frontend: React.js, Next.js, HTML5, CSS3

Backend: Node.js, Express.js, REST APIs

Databases: PostgreSQL, MongoDB

Tools: Git, Linux, Vercel, Postman

Concepts: Data Structures, API Design, Authentication & RBAC, Backend Architecture, SDLC

Experience

Website Developer & Manager Intern

Apr 2026 -- Present

TiniNest Pvt. Ltd.

- Developed and managed a production-ready e-commerce platform using React and Next.js, supporting 10+ product categories and delivering a responsive UI across 3 device breakpoints.
- Implemented backend workflows and database integration across 7 relational tables, reducing deployment friction through automated CI/CD pipelines on Vercel.
- Elevated application performance through modular component architecture, improving rendering efficiency and data handling across all storefront pages.

Software Engineering Intern

Nov 2025 -- Apr 2026

YMS Financial Pvt. Ltd.

- Produced backend workflows and RESTful APIs powering a live election analytics platform, supporting real-time campaign data across 4+ integrated modules.
- Delivered campaign management features covering constituency tracking, booth-level prediction, and reporting, contributing to 3 major product releases.
- Collaborated cross-functionally across 2 teams to integrate React frontend components with Node.js backend services, ensuring seamless end-to-end data flow.

Projects

Campus Management System

[Live Demo](#)

- Engineered an AI-powered campus assistant platform supporting 3 distinct roles (student, faculty, admin) with granular, role-scoped permission controls.
- Architected a PostgreSQL schema on Supabase spanning 9 modules - Notes, Timetable, Assignments, Chat, News, GPA Calculator, Notifications, Calendar, and Study Tracking - handling complex relational data across all user types.
- Configured 15+ row-level security policies on Supabase, restricting unauthorized data access across 9 modules and 3 user roles.

Election Prediction Platform

[Live Demo](#)

- Spearheaded a full-stack election analytics and campaign management platform delivering booth-level predictions across 100+ constituencies.
- Designed secure RESTful APIs using Node.js and Express with JWT authentication and RBAC, safeguarding data across 5+ distinct user roles.
- Automated CSV-based bulk ingestion for constituency and booth data, cutting manual data-entry effort by an estimated 70% and powering real-time analytics dashboards.

TiniNest Website

[Live Demo](#)

- Launched a production-ready children's toy e-commerce platform targeting the Indian market using Next.js 14 and React with a modular component architecture.
- Composed a Supabase backend schema with 7 relational tables (products, orders, reviews, wishlists, coupons, profiles, newsletter) enforced by row-level security policies.
- Streamlined frontend deployment on Vercel, achieving sub-2s load times through lean component structure and automated CI/CD workflows.

Research

Real-Time IoT Monitoring Framework with Edge-Cloud Intelligence

Jan 2026 -- Present

- Designed a five-layer IoT architecture integrating MQTT, Apache Kafka, edge computing, and cloud-based machine learning for real-time data processing.
- Achieved sub-millisecond edge processing latency (0.02--0.05 ms) and end-to-end latency under 20 ms, improving responsiveness by 40--60% over traditional cloud-based systems.
- Implemented an Isolation Forest-based anomaly detection pipeline achieving 95% detection accuracy with a false positive rate below 0.3%.
- Reduced bandwidth utilization by up to 90% through intelligent edge filtering and data aggregation techniques.

Education

Bachelor of Technology in Computer Science Engineering

2023 -- Present

SRM University, NCR Campus, Ghaziabad

CGPA: 8.42

Hackathons & Achievements

Hack-2-Hustle Hackathon

Mar 2025

Masters' Union, Cyberpark, Gurugram

- Shortlisted through 3 competitive rounds in a 12-hour overnight hackathon hosted by Masters' Union at Cyberpark, Gurugram.
- Led development of an Algorithm Runtime Visualizer - a tool that brings code execution to life with real-time, interactive step-by-step algorithm animations.
- Collaborated with a team of 3 peers, managing end-to-end design, development, and live demo delivery under time-constrained conditions.
- Recognized for technical innovation among 20+ participating teams in a highly competitive field.

Extracurricular Activities

Member, Gamer's Creed -- Esports Society

2025

SRM University, NCR Campus

- Active member of the university esports community, participating in 5+ society events, gaming tournaments, and inter-college outreach activities.

Inter-College Badminton Tournament

2024

KIET University -- Representing SRM University, NCR Campus

- Represented SRM University at an inter-college badminton tournament held at KIET University, demonstrating competitive sportsmanship and team representation.

Certifications

Natural Language Processing -- NPTEL / IIT Kharagpur (SWAYAM)

Jan -- Apr 2026

12-week course | 4 credits | Certificate No: NPTEL26CS45S1055101305