

THILAK S

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Education

RV College of Engineering

Bachelor of Engineering in Electronics and Communication

Sep. 2022 – June 2026

Bengaluru, Karnataka

Indian Institute of Technology Madras

Bachelor of Science in Data Science and Applications (Online)

2023 – 2026

Chennai, Tamil Nadu

Relevant Coursework

- Data Structures & Algorithms
- Software Engineering & Methodologies
- Web Technologies & Full-Stack Development (HTTP, REST)
- Database Management Systems (SQL & NoSQL)
- Computer Networks & Internet Technologies
- Operating Systems & Systems Programming

Experience

Shopeal tech

Software Engineer Intern

July 2025 – Present

Remote

- Ship containerized, API-integrated software combining ERP/CMS/CRM — primarily Next.js frontend + Strapi-backed services.
- Built deployment pipelines and CI checks (GitHub Actions + Docker) to standardize releases and reduce rollback risk.
- Implemented observability hooks and health endpoints; collaborated cross-functionally to integrate third-party APIs.

Projects

Monity — Finance Analytics | *Next.js, TypeScript, PostgreSQL*

- Developed a fast, responsive dashboard with AI-powered receipt scanning and smart expense categorization.
- Implemented event-driven backend patterns for reliability, scalability, and low-latency updates.
- Automated recurring transactions, budget alerts, and generated personalized monthly reports.
- Built fully responsive UI with interactive charts and daily analytics for cross-device accessibility.

Jo-Speaks — Document Q&A | *Next.js, LangChain, Pinecone*

- Designed a RAG pipeline for private document Q&A with secure multi-user authentication and data isolation.
- Optimized retrieval templates to enhance relevance and reduce hallucination rates in AI responses.
- Integrated vector search with Pinecone for high-speed contextual query matching.

PriintIt — Print Delivery Platform | *React, Node.js, Google Maps API, Razorpay*

- Architected real-time document routing to nearby vendors using Maps API with price comparison.
- Developed vendor dashboards with analytics, order tracking, and webhook-driven status updates.
- Integrated secure online payments via Razorpay, ensuring a seamless full order lifecycle.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL, C/C++, HTML/CSS

Frontend: React, Next.js, Tailwind CSS, Shadcn UI

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

Databases: PostgreSQL, MongoDB, Supabase, Firebase

Cloud & DevOps: Docker, GitHub Actions (CI/CD), Azure (familiar)

Tools: Git, GitHub, Postman, VS Code, Chrome DevTools

Other: Google Maps API, Razorpay API, Event-driven architecture

Leadership / Extracurricular

Cultural House Captain

2020

Kendriya Vidyalaya, Hassan

- Led and organized cultural events for 500+ students, ensuring smooth coordination between participants and faculty.
- Fostered student engagement and teamwork, contributing to the success of inter-house competitions and school events.