

VIVEKANANTHAN S

• +91 9361758471 • svivek030503@gmail.com • linkedin.com/in/svivek018 • github.com/svivek19

Summary

Full-Stack MERN Developer with 2 years of experience architecting scalable backend systems and production-grade APIs. Proven track record of improving API response times by **30%**, reducing operational costs by **35%**, and stress-testing systems against **1M+ records** across healthcare and EdTech domains.

Experience

Backend Lead – DigiParivaar (Contract)

Jan 2026 – Present

Stadius Technologies Pvt. Ltd.

Remote

- Architected backend from scratch for an MVP EdTech platform using **Node.js** & **Express.js**; delivered **12+ RESTful APIs** covering lesson flows, progress tracking, and resume-learning, cutting average response time by **25%**.
- Engineered **OTP-based auth via Firebase** with secure token flows, onboarding **500+ users** with **zero auth failures** across 3 sprint cycles.
- Modelled **MongoDB schemas** across 5 core collections with strategic indexing, reducing average query execution time by **20%**.
- Led all infra decisions – **Railway** (deployment), **Redis** (caching), **Firebase** (auth) – cutting infrastructure setup time by **40%** vs prior baselines.

Software Developer

June 2024 – Nov 2025

Quantum Sharq Innovative Solutions

Vellore, TN

- Built & maintained a **healthcare management system** (MERN) for **200+ daily active users**; refactored **10+ APIs** and MongoDB aggregation pipelines, improving response times by **30%** and cutting DB load by **40%**.
- Migrated from Interakt to **Meta Business API** for WhatsApp notifications by rewriting the notification service, reducing monthly messaging costs by **35%** at **99.5% delivery reliability**.
- Resolved **15+ critical production incidents** on Linux VPS – memory leaks, cron job optimization – maintaining **99.5% uptime** with avg resolution under **2 hours**.
- Revamped **8+ React components** using **React.memo** & **useMemo**, cutting re-renders by **45%** and boosting **Lighthouse score** by **18 points**.

Projects

VHub – Real-Time Chat Application

2024

MongoDB · Express.js · React JS · Node.js · Socket.IO · Redis · Cloudinary Live | GitHub

- Engineered a chat platform for **50+ concurrent users** using **Socket.IO** rooms and namespaces; deployed **Redis caching** for unread counts and presence with **O(1) access time**, cutting DB read load by **60%**.
- Delivered typing indicators, read receipts, emoji reactions, and threaded replies sustaining **sub-100ms response times** under load via event-driven Socket.IO architecture.
- Validated scalability with **1M+ message records** using cursor-based pagination and compound indexes – zero data integrity issues at peak throughput.

VShop – Full-Stack E-Commerce Platform

2024

Next.js 16 · React 19 · Drizzle ORM · Neon Postgres · NextAuth.js · Zustand Live | GitHub

- Built a **dual-mode database adapter** auto-switching between Neon Postgres and local JSON cache, reducing cloud query latency by **45%** via automated offline fallback and sync.
- Implemented checkout with **canvas-rendered UPI QR countdowns**, PhonePe simulation, and an **NLP-powered product query parser** – maintaining **sub-80ms search-to-checkout times**.
- Stress-tested **1,000+ concurrent cart events** using **Zustand persistence** and server-side invoice PDF generation – zero data integrity failures at peak concurrency.

Education

B.Tech – Information Technology

Bharath Niketan Engineering College

Aug 2020 – June 2024

CGPA: **8.11 / 10**

Technical Skills

Languages

JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend

React.js, Next.js, Tailwind CSS

Backend

Node.js, Express.js

Databases

MongoDB, MySQL, PostgreSQL, Redis

Tools & DevOps

Git, Firebase, Railway, Render, Linux VPS, Cloudinary, AWS (S3, EC2)

Achievements

- **30%** API response time improvement in production
- **35%** cost reduction via Meta API migration
- **99.5%** uptime across production VPS
- Stress-tested **1M+ records**, zero integrity issues
- **500+ users** onboarded, zero auth failures

Profiles

GitHub: github.com/svivek19

LinkedIn: linkedin.com/in/svivek018

Coursework

- Data Structures & Algorithms
- Database Management Systems
- Object Oriented Programming
- Computer Networks
- Operating Systems