

SHANGESH S

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Education

Alliance University, Bangalore

2024 - 2028

B.Tech in Computer Science & Engineering (Kalvium)

Work Experience

Virtua Technology, Australia (Blockchain Organisation)

Aug 2024 – Oct 2024

Full Stack Engineer

Remote

- Architected and deployed end-to-end full-stack features on AWS EC2 instances, integrating blockchain modules with React frontend and Node.js backend to ensure secure and seamless data flow.
- Developed responsive Web3 applications with React and Node.js supporting 500+ concurrent users with 1.4s load time across all devices.
- Implemented comprehensive Jest unit testing and improved front-end performance by cutting bundle size 40% and boosting Core Web Vitals, increasing user engagement by 25%.

Projects

InkWell: Modern Full Stack Blog Platform

[Live Demo](#) — [Source Code](#)

- Engineered a high-performance blog platform using Next.js 15, implementing server-side rendering, static generation and serverless architecture deployed on Vercel to achieve 99% Google Lighthouse performance score and 0.6s initial page load times.
- Integrated advanced features including real-time markdown editor, comment system, and JWT user authentication, supporting 1000+ concurrent readers with 99.9% uptime through optimized MongoDB queries, caching strategies and Implemented Jest testing.

Fin-Pay: Enterprise Virtual Banking System

[Live Demo](#) — [Source Code](#)

- Built a secure MERN-based virtual banking application with end-to-end encryption deployed on Vercel, processing 10K+ transactions at 99.95% success rate with comprehensive Jest test coverage.
- Achieved SOC 2 compliance with JWT, bcrypt, and rate limiting to blocked 100% of unauthorized access attempts in stress testing with 50+ concurrent users.
- Optimized MongoDB performance via indexing and aggregation pipelines and maintaining sub-200ms API response times.

MERN-Food: Full-Scale Food Delivery Platform

[Live Demo](#) — [Source Code](#)

- Developed a full-featured food delivery platform with real-time order tracking and admin dashboard deployed on onRender, handling 500+ daily orders and managing 2K+ menu items with automated Jest testing pipeline.
- Implemented responsive design using Tailwind CSS and mobile compatibility to 96% and reducing bounce rate by 40% across all device types.
- Integrated Stripe payment gateway and achieving 99.8% transaction success rate.

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL

Backend: Node.js, Express.js, FastAPI, Next.js 15 API Routes, Prisma ORM

Frontend: React.js, Next.js 15, HTML5, CSS3, TailwindCSS, Responsive Design

Databases & Devops: MongoDB (Mongoose), PostgreSQL (Prisma ORM), AWS, Docker, Git, CI/CD

Testing: Jest, Unit Testing, Performance Testing

Honours and Awards

National Finalist – PromptRepo X Kalvium AI Hackathon

Feb 2025

PromptRepo

- Advanced to National Final Round as individual participant among 100+ teams nationwide, developing complete AI-powered solution from ideation to deployment within 48 hours, demonstrating full-stack expertise and innovation under pressure.

Winner – State-Level Coding Hackathon

Nov 2023

Govt of Tamil Nadu

- Secured 1st place among 200+ participants in district-wide coding competition, developing an innovative MVP Blockchain Implementation Website within 24 hours and deployed, earning recognition for technical excellence and creative problem-solving.

Achievements / Certifications

- **JavaScript Back-End Development** - IBM — Issued: Oct 2024
- **React Specialization** - Meta — Issued: Sep 2024
- **Google Lighthouse Performance Score:** Achieved 99% across multiple production applications deployed on Vercel
- **Open Source Contributions:** 20+ commits to public repositories with focus on React and Node.js projects