

Madhan Kumar R

Full Stack Engineer | NodeJS, Python, FastAPI, VueJS, Docker

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Experienced Full-Stack Developer with nearly four years of expertise in designing and implementing scalable software solutions. Proficient in both Python and Node.js, with a strong background in leading development teams, enhancing system performance, and driving product innovation in fintech and healthcare domains.

PROFESSIONAL EXPERIENCE

Techno Consulting Services, Coimbatore, TN (Previously Kanigam LLP)

Full-Stack Engineer (Mar 2020 – Present)

Payment Gateway Development – Lead Full-Stack Engineer

Technologies: Node.js, NestJS, Angular, Kafka, Redis

- **Team Leadership:** Directed a team of 5 engineers in the development of a comprehensive payment gateway, integrating Mastercard, Visa, and RuPay networks with advanced tokenization features.
- **Security & Efficiency:** Implemented UPI QR code generation, AES encryption, and reconciliation processes, enhancing transaction security and operational efficiency by 20%.
- **Product Innovation:** Spearheaded the development of a cashback points app with user-centric features, resulting in higher redemption rates and seamless KYC integration.
- **Code Quality Assurance:** Orchestrated code reviews and architectural discussions, leading to a 40% reduction in production bugs and a 20% improvement in system performance.

Healthcare SaaS Project – Full-Stack Engineer

Technologies: Python, FastAPI, PostgreSQL, SQLAlchemy, Docker, CI/CD

- **Backend Development:** Designed and developed the backend for a Healthcare SaaS application using Python and FastAPI, reducing administrative tasks by 40% and improving API responsiveness.
- **Deployment & CI/CD:** Implemented Docker-based deployment strategies and CI/CD pipelines, reducing deployment time and improving software reliability by 50%.
- **Database Optimization:** Managed PostgreSQL database interactions with SQLAlchemy, improving query performance and ensuring data integrity.
- **Responsive Design:** Developed a responsive website using Vue.js, improving user experience across devices.
- **Global Impact:** Enhanced web applications accessed by over 100,000 medical professionals worldwide.

EDUCATION

Bharathiar University, Coimbatore, TN

Master's in Computer Applications.

Aug 2022

NGM College, Pollachi, TN

Bachelor's in Computer Applications.

May 2020

TECHNICAL SKILLS

- **Languages & Frameworks:** Node.js, NestJS, Python, FastAPI, Angular, Vue.js
- **Database Management:** PostgreSQL, MongoDB, Redis, SQLAlchemy
- **DevOps & Tools:** Docker, CI/CD, Docker Swarm, Kafka
- **Others:** RESTful APIs, Responsive Web Design, Encryption Technologies.