

Varnikumar Rajendrakumar Patel

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EXPERIENCE

FOSSEE, IIT Bombay

Software Development Fellow - Osdag Web

May, 2026 - Jul, 2026
Mumbai, India (Remote)

- Tested 22 Osdag Web modules across multiple devices, identifying and resolving primary functional issues.
- Established 10+ key feature enhancements, integrating project and module renaming in the navigation.
- Raised 5 GitHub pull requests addressing UI improvements, system optimizations, and responsive fixes.
- Collaborated with 5+ engineers to thoroughly validate and deliver production-ready application updates.

Mittal Alliance Industries Private Limited

Full Stack Web Developer Intern

May, 2025 - Jan, 2026
Indore, India (Hybrid)

- Crafted highly responsive frontend interfaces for 10 websites, ensuring pixel-perfect user experiences.
- Contributed to 3 major projects with the backend team utilizing Node, Express, MongoDB, and Firebase.
- Coordinated with clients and 4 programmers to align base project requirements and ensure timely delivery.
- Led a team of 6 developers, closely reviewing 50+ logic updates to maintain exceptional code quality.

PROJECTS

ArchMind - AI-Powered System Design Learning Platform

Jul, 2026 - Aug, 2026

- Built a full-stack Next.js & MongoDB AI System Design platform with HLD, LLD, and an AI Mentor.
- Designed an Excalidraw React plugin with an AST engine, parsing 50+ visual components into JSON.
- Integrated Groq LLM APIs to automate architecture reviews & Terraform IaC generation in under 3 sec.
- Programmed a secure dashboard using NextAuth/JWT, achieving 95+ Lighthouse and <1s load time.

CompileVerse, AI-powered Online Code Compiler & Analyzer

Jun, 2026 – Jul, 2026

- Engineered a scalable full-stack containerized IDE for 4 major languages using React, Node, and Docker.
- Leveraged Groq LLM APIs to deliver 3 real-time code feedback modules with AI analysis under 800ms.
- Architected a secure execution engine enforcing 5s timeouts and 1MB buffer limits to block vulnerabilities.
- Decoupled synchronous AI analysis to async process, slashing execution latency from 8000ms to 360ms.

TECHNICAL SKILLS

- **Programming Languages:** Java (Core & DSA), JavaScript, TypeScript, Python, SQL.
- **Backend & Databases:** Node.js, Express.js, Redis, Kafka, MongoDB, PostgreSQL, Firebase
- **Frontend Technologies:** React.js, Next.js, Tailwind CSS, HTML, CSS, Bootstrap, Framer Motion
- **Tools & DevOps:** Docker, Docker Hub, Git, GitHub, CI/CD, Postman, AWS(EC2, S3, IAM)

ACHIEVEMENTS & LEADERSHIP

- Twice selected for Amazon ML Summer School (2025 & 2026), ranking among top 3,000 candidates.
- Earned the LeetCode Knight badge with a peak Contest Rating of 1868, ranking in the top 5.64% globally.
- Secured the Specialist rank on Codeforces with a peak rating of 1467 through competitive programming.
- Served as Technical Lead of a 5-member team at Ramanujan Club, driving key initiatives and mentoring.

EDUCATION

Vellore Institute of Technology

Jun, 2023 - May, 2027

B.Tech in Computer Science & Engineering (Artificial Intelligence and Machine Learning)

CGPA:7.91 / 10.00