

Vedant L Iyengar

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Senior Software Engineer with **8+ years of experience** specializing in **distributed systems** and high-traffic web applications. Proven track record of driving **operational excellence** through **CI/CD automation**, reducing deployment times by **96%**, and managing multi-tenant platforms serving **250,000+ organizations** globally. Expert in **TypeScript, React**, and **BFF architectures**, with a strong focus on **test-driven development (TDD)** and **data-driven optimization** through extensive A/B experimentation.

Skills

Category	Skills
Languages	TypeScript, JavaScript, Java , Python, GoLang, HTML/CSS
Frameworks	Node.js, React Native, React , Angular
Back-end/Infra	Kafka, BFF Architectures (GraphQL) , Docker, Serverless, Shell Scripting, Cloud Services
Data Stores	Redis , PostgreSQL, MySQL
Methodologies	Trunk Based Development, CI/CD, A/B Testing , Pair Programming, Architecture Katas, AI-First Software Development
Cloud Services	AWS: ECS, Fargate, SNS, STS, S3, CloudFront, CloudFormation, Lambda GCP: CloudSQL, CloudRun, BigQuery Azure: Enterprise Applications

Work Experience

Senior Software Engineer (Consultant) | ThoughtWorks Technologies

Nov 2021 - Present

- **AI Infrastructure:** Prototyped MCP server integrations to streamline deployment automation via natural language prompting, reducing manual pipeline overhead.
- **Agentic Skills:** Engineered modular LLM "skills" and tool schemas, translating non-technical user intent into structured, multi-step API executions.
- **Platform Strategy & Design:** Defined the architectural roadmap for high-throughput distributed services using Architectural Decision Records (ADRs); secured 2nd place in a company-wide Architecture Kata by solving complex consistency challenges in a multi-region environment.

- **Transactional Reliability:** Engineered **Kafka-based backend worker services** with a focus on idempotency and error-resiliency, ensuring data integrity across cross-platform mobile and web ecosystems.
- **Operational Excellence (CI/CD):** Architected a zero-downtime deployment strategy that reduced maintenance window latency from **30 minutes to under 1 minute**
- **Quality Engineering & TDD:** Pioneered a custom automated testing framework that eliminated manual parity testing and reallocated 3 QA engineers to other testing methods, upholding strict Test-Driven Development (TDD) standards.
- **Technical Leadership:** Governed the end-to-end release process for 6+ enterprise-scale application launches and mentored a team of engineers to establish standardized runbooks for system stability.
- **Observability:** Implemented advanced **Datadog and Splunk** telemetry to monitor "golden signals" (latency, errors, traffic) for mission-critical business metrics.

Member of Technical Staff | Zoho Corporation

Mar 2020 – Oct 2021

- **Scalable Distributed Systems:** Maintained a global no-code platform serving ~250,000 organizations, ensuring high availability and seamless multi-tenant stability across diverse geographical regions
- **API Ecosystems:** Standardized RESTful endpoints and GraphQL (BFF) architectures that functioned as the unified data engine for 4 distinct product lines, improving cross-team developer efficiency.
- **Frontend Mentorship:** Resolved significant technical debt within the frontend stack and conducted training sessions on internal frameworks for cross-functional teams

Programmer | Ionixx Technologies

May 2018 – Mar 2020

- **Developer Efficiency:** Engineered a comprehensive Angular boilerplate featuring interceptors and lazy loading, which was adopted as the company-wide standard for all Angular projects.
- **Performance Optimization:** Integrated asynchronous processing for transactional email systems, enabling the handling of batches up to 10,000 users efficiently.
- **Data Visualization:** Built interactive, high-performance dashboards featuring 10+ complex chart types for data analysis.

Education

Bachelor of Computer Science, 2014 - 2018, Karpagam College of Engineering, Coimbatore