

VIGNESH VENKATRAMAN

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Professional Profile

Hands-on Engineering Leader with 10+ years **architecting and delivering end-to-end technology platforms** across SaaS, energy, and cybersecurity domains. Proven record of **leading, mentoring and developing engineering teams**, setting technical direction, and staying **hands-on with architecture, system design and code**. Skilled in **Node.js full-stack development, information security**, and **AI-assisted development**. Focused on balancing **technical quality with commercial priorities** to turn complex requirements into scalable products that drive **business growth**.

Key Competencies

Leadership & Strategy	IT team leadership, stakeholder management, roadmap planning, Agile (Scrum/Kanban)
Frontend Development	React.js, Vue.js, JavaScript, TypeScript, Tailwind CSS, Micro Frontends, widget development
Backend & APIs	Node.js, Express.js, REST APIs, JWT Authentication
Database & Caching	MySQL, DynamoDB, Redis , Schema design
Cloud & DevOps	AWS (CDK, Lambda, ECS, API Gateway, S3), CI/CD pipelines, Docker
Testing & DevOps	Jest, React Testing Library, Playwright, ESLint, Unit Testing
Information Security	ISO 27001 Implementation, GDPR compliance, encryption, Helmet.js

Career History

WI Energy

IT Lead-Tech & Transformation.

[February 2024 - Present]

Leading provider of energy saving solutions, renewable technology services across Ireland.

- Hands-on engineering lead for the business - leading, mentoring and developing a small engineering team, setting technical direction and coding standards while staying closely involved in architecture and code.
- Sole architect of a bespoke CRM & ERP platform, designing and building the entire system end-to-end (architecture, database, APIs, frontend, deployment) with React, Node.js, PostgreSQL and JWT auth, lifting business flow efficiency by 40% across sales, fleet, and field teams.
- Spearheading the company's ISO 27001 certification programme - architecting security layers including Helmet.js, data encryption, and audit trails, while ensuring full GDPR compliance across all IT systems.
- Championed responsible adoption of AI-assisted development tools within the team, and integrated AI capabilities into business applications to improve workflow automation and decision-making.
- Raised standards across code quality, testing, deployment and documentation, and introduced a clearer approach to prioritising technical debt.
- Primary technical point of contact for founders and senior stakeholders, converting business priorities into an achievable roadmap and communicating technical trade-offs in clear, non-technical terms.

Key Achievement: Sole architect of a custom CRM & ERP platform built end-to-end, increasing business flow efficiency by 40%, while leading the engineering team and the company's ISO 27001 and GDPR compliance programme.

ZOHO CORPORATION PRIVATE LIMITED

Technical Lead, Zoho CRM

[March 2019 – February 2022]

SaaS-based CRM platform designed to manage sales, marketing, contacts, customer support, and other business functions in a single cohesive system.

- Directed the team's frontend delivery using React.js, Vue.js, TypeScript setting technical standards and guiding architecture decisions across the CRM platform.
- Orchestrated the integration of third-party and internal applications with Zoho CRM via REST APIs and Node.js middleware services, doubling the number of integrated apps and driving a 30% increase in product revenue.
- Developed bespoke Node.js applications for premium enterprise customers, tailored to their specific business workflows and operational requirements.
- Led database design initiatives for CRM modules, improving query response times by 20% through indexing and schema optimisation strategies.
- Mentored and managed the team through structured requirement delivery plans, increasing on-time delivery accuracy by 50%.

Key Achievements: Led the integration of third-party apps with Zoho CRM, doubling integrations and boosting product revenue by 30%, significantly enhancing platform functionality.

Member Technical Staff, Zoho Vault

[February 2014 - March 2019]

SaaS-based online password manager storing passwords and confidential files in a centralised encrypted vault for individuals and enterprise teams.

- Spearheaded the full modernisation of Zoho Vault's architecture, migrating from a legacy stack to React and Node.js, improving performance by 30% while maintaining enterprise-grade security standards.
- Designed and delivered critical security features including automatic password rotation and intelligent form filling, contributing to a 20% increase in paid subscriptions.
- Consolidated multiple browser extensions into a single unified Node.js codebase, reducing maintenance overhead by 70% through modular architecture design.
- Established comprehensive testing protocols combining Jest unit tests and Selenium end-to-end testing, reducing production incidents by 40%.
- Mentored junior team members in modern development practices, particularly around building secure, maintainable web applications with React and JavaScript.
- Collaborated with security teams to implement encryption best practices and audit trails, ensuring compliance with enterprise security requirements.

Key Achievements: Recognised by company directors for leadership skills and promoted to **Technical Lead** for Zoho's highest revenue generating product, Zoho CRM.

Qualifications

MSc in Cybersecurity, National College of Ireland

[January 2022 – January 2023]

B.E in Electronics & Communication Engineering, Anna University

[January 2008 – January 2012]