

VELMURUGAN RAVICHANDRAN

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 8+ years of experience building scalable, cloud-native applications using modern frontend and backend technologies. Strong hands-on experience with AWS, Azure and DevOps practices. Expert in building secure, maintainable systems using TDD (Test Driven Development) with comprehensive unit, integration, and E2E testing. Proven experience with CI/CD pipelines, API Gateway, microservices, serverless architecture and performance optimization, with hands-on exposure to Generative AI and LLM-based solutions, including RAG workflows and prompt engineering, in Agile Scrum environments.

SKILLS

Programming Languages:	JavaScript, TypeScript, Python
Frontend Technologies:	HTML, CSS, SCSS, TailwindCSS, MaterialUI, React, Next.js,
State Management:	Redux, Zustand
Backend Technologies:	Node.js, Express.js, Nest.js, FastAPI, API Gateway
Databases & Query Languages:	MySQL, PostgreSQL, MongoDB, SQL, GraphQL
DevOps & CI/CD:	Docker, Kubernetes, GitHub Action, ArgoCD, Serverless
Generative AI:	RAG, Prompt Eng, LangGraph, CrewAI, MCP
Monitoring & Testing:	Jest, Pytest, Sentry.io, New Relic
Tools & Platforms:	Git, Jira, Confluence, Notion, Google Tag Manager (GTag)
Soft Skills:	Communication, Team Collaboration, Leadership, Problem-Solving, Mentoring

EXPERIENCE

- Technical Lead** Mar 2024 - Jan 2025
Redblob Technologies (*Full-time*) Puducherry, IN
- Led architecture and end-to-end development of full-stack applications using modern frameworks (React, Nest.js, FastAPI), cloud platforms (AWS, Azure) and DevOps practices (CI/CD, Docker, Kubernetes).
 - Spearheaded the architecture of scalable Agentic AI workflows using LangGraph, CrewAI and MCP, decoupling data retrieval from core logic to enhance system modularity.
 - Mentored a team of 5 developers, reduced junior engineer ramp-up time by 30% and establishing a strong culture of code ownership and peer review.
 - Collaborated with stakeholders to gather requirements, align priorities, and influence key system design decisions, resulting in improved application performance and a scalable, future-proof architecture across multiple projects.
- Senior Full-Stack Developer** Mar 2023 - Feb 2024
Redblob Technologies (*Full-time*) Puducherry, IN
- Developed and deployed full-stack applications using React, Node.js, FastAPI, and PostgreSQL, integrating AWS Lambda and API Gateway for scalable microservices architecture, and implementing unit and integration testing to ensure robust releases of key client-facing platforms.
 - Developed and integrated AI-driven solutions using LangChain, LangGraph, implementing RAG (Retrieval Augmented Generation) pipelines and MCP-based agent workflows for scalable, data-intensive system.
 - Implemented CI/CD pipelines with GitHub Actions and Docker, reducing deployment time by 30% and increasing release frequency.
 - Optimized database queries and backend services, lowering infrastructure costs by 40% and improving API response times.
 - Analyzed technical requirements in collaboration with product stakeholders, ensuring scope clarity and timely delivery of features.

Full-Stack Developer Auroran Technologies (<i>Full-time, Remote</i>)	Jan 2021 - Feb 2023 <i>Hosuton, USA</i>
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- Developed and deployed Microsoft 365 solutions using SPFx, automating internal workflows and improving document management efficiency across departments.
- Integrated Microsoft Graph API for automated email, calendar, and document access across departments.
- Developed secure backend APIs with Node.js and Express, reducing downtime and improving reliability.
- Implemented Azure AD-based authentication and role-based access, cutting IT support requests by 20%.
- Worked with stakeholders to define requirements and accelerate feature delivery.

Application Consultant Abi-Tech Solution (<i>Full-time</i>)	Apr 2020 - Aug 2020 <i>Puducherry, IN</i>
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- Built responsive web apps using Node.js and Express, incorporating modern JavaScript best practices and backend service integration.
- Designed and deployed RESTful APIs with AWS Lambda and API Gateway, enabling secure and scalable microservice integration.
- Worked with SQL and NoSQL databases (PostgreSQL, MySQL, MongoDB), optimizing queries to improve response times by 30%.
- Ensured backend security and reliability through clean code and tested services.

Front-end Developer AAHA Solutions (<i>Full-time</i>)	Jan 2017 - Feb 2020 <i>Puducherry, IN</i>
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- Developed responsive and dynamic web interfaces using React, Angular, and Next.js, improving user engagement across internal platforms.
- Translated UI/UX designs into functional layouts using SCSS, Bootstrap, and Material UI.
- Integrated RESTful APIs, WebSocket, and GraphQL endpoints for real-time and seamless data interactions.
- Collaborated with cross-functional team including designers and backend teams to deliver visually appealing and user-friendly applications on schedule.

Front-end Developer (Internship) AAHA Solutions (<i>Full-time</i>)	Oct 2016 - Dec 2016 <i>Puducherry, IN</i>
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- Assisted in developing responsive web interfaces using HTML, CSS, and modern JavaScript frameworks.
- Implemented UI components and integrated REST APIs under guidance from senior developers.
- Gained hands-on experience with frontend development workflows, version control, and agile collaboration.

EDUCATION

Master of Information Technology , University of Waikato, NZ	Feb 2025 – Feb 2026
Bachelor of Commerce , Alagappa University, IN	Jun 2013 - May 2016

ACHIEVEMENTS

- Recognized by the Founder of Redblob Technologies for leadership, delivery excellence, code quality, and strong focus on client satisfaction. [\[View Recommendation\]](#)
- Earned client recognition for delivering complex features including multi-tenancy, tenant-specific UI customization, performance monitoring, and secure SSO integration using SAML. [\[Client Recommendation\]](#)

CERTIFICATIONS

MCP • Google Tag Manager (GTag) • Apache Kafka • Jest Testing Framework • Microservice Security