

Balamurugan Manickam

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Engineering Architect and Delivery Leader with 15+ years of experience designing scalable enterprise systems, modernizing platforms, and leading cross-functional global engineering teams. Specialized in front-end architecture, microservices integration, and high-performance delivery. Proven success in setting up offshore teams, establishing engineering best practices, building design systems, and delivering mission-critical SaaS products with reliability and scalability.

CORE SKILLS & ARCHITECTURE EXPERTISE

Architecture & Engineering

System Design • Front-end Architecture • Microservices • Event-Driven Systems
Design Systems • API Design • Enterprise Integration • Cloud-Native Development (GCP)

Front-end Technologies

React • Angular • TypeScript • JavaScript (ES6+) • Monorepo Architecture
Micro-frontends • Redux • Webpack • Storybook

Back-end Technologies

Node.js • Python • PHP • MongoDB • PostgreSQL

Cloud & DevOps

GCP • Docker • CI/CD (GitHub Actions, Jenkins) • Private Artifact Repository (Github Packages, JFrog)
Observability • Monitoring & Logging

Leadership & Delivery

Technical Roadmapping • Engineering Management • Agile/Scrum
Offshore Team Setup • Stakeholder Collaboration • Mentorship & Talent Dev
Performance Optimization • Product Delivery & Execution

EXPERIENCE

Engineering Architect - Weav AI

Bangalore | October 2022 - Present

- Spearhead architecture and engineering delivery for AI-driven enterprise solutions across time zones, ensuring scalable, secure, and high-performance systems.
- Define and implement engineering standards, coding guidelines, and architectural governance across teams.
- Architect scalable front-end platforms using React + monorepo patterns, increasing developer velocity by 30% through modular code organization and reduced redundancy.
- Mentor engineers across front-end, back-end, and QA, raising code quality and autonomy.

Director of India Operations | Delivery Head - Prosrent Technologies

Bangalore | July 2020 - September 2022

- Established and scaled the India offshore development center from 0 to 7+ engineers (Dev & QA), building processes and infrastructure to support 3-4x growth projection.
- Led full delivery lifecycle for marketplace products, ensuring on-time releases within budget.

- Defined product roadmaps, delivery processes, and operational frameworks, enabling predictable release schedules and improved cross-team alignment on 3+ concurrent products.
- Architected reusable component libraries and design systems.
- Introduced CI/CD and code-quality automation, reducing release cycles from monthly to weekly (4x improvement).

Principal Engineer UI | Solution Architect - Bidgely

Bangalore | April 2019 - June 2020

- Led front-end modernization of B2B/B2C energy intelligence platforms using React + TypeScript.
- Developed a unified component design system used across multiple product teams, accelerating release cycles.
- Improved application performance and scalability, contributing to a 20% increase in user engagement and sub-2 second page loads.
- Mentored 3-4 junior engineers, establishing UI architecture best practices and code review standards.

Principal Engineer UI - Apttus (now Conga)

Bangalore | November 2016 - April 2019

- Led UI engineering for the Intelligence Workflow Approvals (IWA) platform.
- Led CI/CD infrastructure modernization, establishing automated testing and deployment pipelines.
- Collaborated with product and business teams to ensure architecture aligned with roadmap priorities.
- Enhanced performance, accessibility, and code maintainability across the platform.

Senior Lead UI Developer - Canvera

Bangalore | September 2013 - November 2016

- Built scalable SPAs and internal tools, improving operational efficiency and user engagement.
- Integrated multiple third-party APIs (Facebook, Twitter) to expand capabilities across products.
- Drove front-end performance optimization and UI modernization initiatives.

Lead UI Developer - Logitech

Chennai | September 2012 - September 2013

- Delivered pixel-perfect, responsive UI templates aligned with global design guidelines.
- Customized jQuery Mobile to enhance mobile experience and visual quality.
- Optimized cross-device performance and UI consistency.

Senior Software Developer - Tata Consultancy Services

Chennai | January 2010 - August 2012

- Delivered core modules for enterprise web applications based on client SRS and architectural guidelines.
- Automated 80% of production support tasks, significantly reducing manual workload and improving system uptime.

EDUCATION

Master of Computer Applications | Alagappa Chettiar College of Engineering and Technology, Anna University | Karaikudi | 2009

Bachelor's degree in Physics | The Madura College, Madurai Kamaraj University | Madurai | 2006