

Murugesh Aravind

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Professional Summary

Senior Frontend Engineer with **8+ years** of experience building scalable, high-performance web applications using **React, TypeScript, and JavaScript**. Deep expertise in frontend architecture, state management (Redux Toolkit, Zustand), performance optimization (Core Web Vitals, code-splitting, lazy loading), and test-driven development (Jest, React Testing Library, Playwright). Proven record of leading React migrations, improving page load times by up to **40%**, and delivering enterprise-grade solutions in Agile/Scrum environments. Experienced in micro-frontend architecture, REST API integration, CI/CD pipelines, and mentoring cross-functional engineering teams.

Key Skills

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, SCSS

Frameworks & Libraries: React.js, Redux Toolkit, Zustand, Context API, React Router, React Hooks

Architecture: Micro-frontends, Component-Driven Development, Single Page Applications (SPA), REST APIs

Performance: Core Web Vitals, Code Splitting, Lazy Loading, Tree Shaking, Bundle Optimization, Webpack, Babel

Testing: Jest, React Testing Library, Playwright, Enzyme, Unit Testing, Integration Testing, E2E Testing, TDD

UI & Accessibility: Responsive Design, Semantic HTML, WCAG 2.1, ARIA, Cross-Browser Compatibility

Tools & DevOps: Git, GitHub, Jenkins, CI/CD Pipelines, npm, yarn, Chrome DevTools, JIRA

Methodologies: Agile, Scrum, Kanban, Code Review, System Design, Technical Mentoring

Work Experience

Senior Associate – Projects (Senior Frontend Engineer)

Cognizant Technology Solutions

Bengaluru, India (Hybrid)

Aug 2022 – Present

- Architected and delivered a React and TypeScript-based frontend for the **Open Account Online (OAO)** banking platform, enabling secure, high-availability customer onboarding flows serving thousands of daily users
- Implemented PII data-masking, secure rendering patterns, and role-based access control (RBAC) to meet enterprise security and regulatory compliance requirements for banking applications
- Optimized frontend performance using lazy loading, memoization, React Hooks, and efficient state management with Redux Toolkit, achieving **25% improvement** in page load times and Core Web Vitals scores
- Established comprehensive testing strategy using Jest and React Testing Library, achieving **85%+ code coverage** and reducing production defects significantly
- Led code reviews, enforced engineering best practices, and mentored junior frontend developers in React, TypeScript, and component-driven development patterns

Senior Associate Consultant (Senior Frontend Engineer)

Infosys Limited

Bengaluru, India (Remote)

Jun 2020 – Apr 2022

- Led migration of enterprise workflow platform (Red Hat Process Automation Manager) from Angular to React for **50,000+ active users**, re-architecting the SPA for improved scalability, maintainability, and developer experience
- Achieved **40% reduction** in application load times and **20-point Lighthouse score improvement** through code-splitting, lazy loading, tree-shaking, and Webpack bundle optimization

- Drove **15% growth in Daily Active Users** within 6 months post-release through enhanced UX, performance improvements, and REST API integration optimizations
- Led accessibility initiative ensuring WCAG 2.1 AA compliance (ARIA landmarks, semantic HTML, keyboard navigation), improving usability across critical enterprise workflows
- Collaborated with backend teams on REST API design and integration, improving data-fetching efficiency using custom React Hooks and optimistic UI patterns

Software Engineer (Frontend Engineer)

Amazecodes Solutions Pvt. Ltd

Bengaluru, India (On-site)

Jun 2018 – Mar 2020

- Developed pixel-perfect, responsive React UIs for enterprise SaaS applications using component-driven architecture, design systems, and CSS/SCSS modules
- Built reusable, cross-browser compatible React component libraries (Chrome, Firefox, Safari, Edge), reducing UI-related bugs by **30%** and accelerating feature delivery cycles
- Resolved critical frontend performance bottlenecks through React profiling, memoization, and code-splitting, improving application stability and user experience
- Integrated REST APIs and managed application state with Redux, delivering dynamic data-driven UIs for B2B SaaS clients

Configuration Management Engineer

Altran Technologies / ManpowerGroup

Chennai & Bengaluru, India

Dec 2014 – May 2018

- Managed configuration of telecom infrastructure for Vodafone and Turk Telekom, gained first web technology exposure collaborating with Digital Vendor Marketing team on retail web pages
- Completed self-directed training in JavaScript, React, HTML, and CSS, leading to a deliberate full-time transition into software engineering in 2018

Education

Bachelor of Technology – Information Technology

K.S.R College of Technology, Tamil Nadu, India | CGPA: 7.19/10

Aug 2010 – Jun 2014

Certifications

- **AWS Certified Cloud Practitioner** – Amazon Valid: Mar 2026 – Mar 2029
- **Oracle Certified Foundations Associate** – Oracle Valid: Jun 2025 – Jun 2027
- **GitHub Copilot Foundations** – GitHub Valid: Jun 2025 – Jun 2028
- **AI-Assisted Development (Cursor AI)** – Internal Hackathon, Cognizant Nov 2025

Awards & Recognition

- **Doing The Right Thing** – Cognizant (Excellence in OAO Banking Platform Delivery) 2025
- **Working as one** – Cognizant (Successful Deliveries and Continuous Improvements) 2023
- **Insta Award** – Infosys (Outstanding Performance, Angular-to-React Migration Project) 2021