

MUTHUKUMAR JAYAMURUGAN

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SUMMARY

Over 10 years of extensive experience in leading the development and implementation of high-performance web applications across diverse industries, and ensuring user-friendly interfaces and robust functionality. Strong ability to create and maintain the technical architecture for front-end systems, ensuring scalability, performance & maintainability, and utilizing React, Redux, Node, Express, modern front-end technologies, frameworks & tools for front-end development. Engineered intricate web applications efficiently, upholding stringent quality benchmarks throughout the development process. Progressive history of delivering 3 major modules within budget and ahead of schedule which led to 15% increase in customer satisfaction ratings. Slashed 50% application load time by implementing caching strategies while enhancing overall performance.

Effective leader with competency in guiding teams to achieve project milestones and deliver exceptional software solutions. Successfully guided the adoption of Agile methodologies, resulting in a 20% increase in team productivity and meeting 90% project deadlines. Conducted regular performance evaluations and career development plans, resulting in a 15% improvement in team satisfaction scores.

CORE COMPETENCIES

- Technical Leadership
- Architecture Design
- Front-end Development
- Project Management
- Agile Methodologies
- Coding and Testing
- Cross-Functional Stakeholder Collaboration
- Performance Optimization
- User Experience
- Team Development and Management

TECHNICAL SKILLS

- **Front-End:** React, Redux, JavaScript, Typescript, jQuery, AngularJS, KnockoutJS, ExtJS, DevExpress, HTML, CSS, and SASS
- **Back-End:** Node, Express, Next, and AWS
- **Testing Frameworks:** Jest and Playwright
- **Others:** Webpack, Git, Rally, Azure DevOps, Figma, and Jira

EXPERIENCE DETAILS

Staff Software Engineer | GE Vernova, Bangalore | May 2018 – Present

- Enhancing software development with Agile to boost efficiency and quality.
- Mentoring junior engineers to promote innovation and technical excellence.
- Collaborating on technical strategies and product roadmaps with cross-functional teams.
- Conducting code reviews and enforcing coding best practices and architectural guidelines.
- Leading the design and implementation of scalable software solutions aligned with business goals.

Technical Lead | Accion Labs, Bangalore | Jan 2015 – Apr 2018

- Successfully led software project from inception to delivery, meeting deadlines and budgets.
- Mentored and developed software engineers, boosting their skills and growth.
- Defined and implemented technical strategies and architectural designs aligned with business goals.
- Advised stakeholders on technology choices and solutions.
- Promoted continuous learning and improvement to enhance team productivity and delivery.

Software Engineer | Verizon, Chennai | Oct 2013 – Jan 2015

- Contributed to all phases of the development life cycle, including software evaluations and user support.
- Provided application support and troubleshooting for enhanced customer service.

PROJECTS UNDERTAKEN

Title: APM

Environment: ReactJS, Redux, Knockout, Typescript, NodeJS & AWS

Description: APM comprises a suite of software and services aimed at optimizing asset performance. It enhances asset reliability and availability while optimizing maintenance costs, reducing operational risks, and lowering total cost of ownership.

Responsibilities:

- Developed and maintained the technical architecture.
- Collaborated with stakeholders to align project requirements and constraints.
- Recommended technologies and tools to support development and meet objectives.
- Provided technical leadership through code reviews and mentoring.
- Leading frontend development and micro frontends.

Title: MSA Life Science

Environment: AngularJS, NodeJS, REST, Jenkins, ExpressJS and Docker

Description: MSA Life Science is a transplant management system that consolidates recipient and donor data across the transplant process. It integrates data from various sources to provide a comprehensive clinical overview for each patient's journey.

Responsibilities:

- Initiated and developed the project from start.
- Implemented key components and functionalities.
- Optimized product performance and usability.
- Introduced unit and end-to-end testing.
- Managed CI/CD pipeline for smooth integration and deployment.

Title: ACSS

Environment: JavaScript, HTML, RESTful APIs and ExtJs

Description: ACSS is an Automated Customer Support System utilized by 40,000 Verizon call center representatives to handle customer queries. It involves migrating an existing desktop application to a new web-based version.

Responsibilities:

- Contributed to all phases of the development life cycle, including software evaluations and user support.
- Provided application support and troubleshooting for enhanced customer service.

Title: eResearch

Environment: JavaScript, jQuery, CSS, and HTML

Description: eResearch serves 20 leading medical institutions featured in the U.S. News and World Report, offering a flexible clinical research management platform. It integrates financial, administrative, and clinical research activities to streamline operations and improve data accuracy.

Responsibilities:

- Developed modules for tense management.
- Integrated search engine capabilities into other applications.

EDUCATION

- B.E., Computer Science and Engineering, Chennai, 2010