

## MUTHUKUMAR JAYAMURUGAN



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[muthukumar-jayamurugan](https://muthukumar-jayamurugan.github.io)



<https://muthukumar.tech/>

Passionate software architect dedicated to crafting innovative solutions that blend cutting-edge design principles with robust architectural frameworks, driving seamless user experiences and scalable solutions in dynamic technological landscapes.

### Expertise and Skills

- **Front-End:** React, Redux, JavaScript, Typescript, DevExpress, HTML, CSS, SASS
- **Back-End:** Node.js, Express.js, Next.js, AWS
- **Testing Frameworks:** Jest, Playwright
- **Others:** Webpack, GitHub, Rally, Azure DevOps, Jira

### Profile Summary

- Lead the development of scalable web applications across diverse industries for 13.4 years, ensuring user-friendly interfaces and robust functionality.
- Successfully guided the adoption of Agile methodologies, resulting in a 20% increase in team productivity and meeting 90% project deadlines.
- Reduced application load time by 50% by implementing caching strategies, enhancing overall performance.
- Conducted regular performance evaluations and career development plans, resulting in a 15% improvement in team satisfaction scores.
- Successfully delivered 3 major modules within budget and ahead of schedule, resulting in a 15% increase in customer satisfaction ratings.
- Engineered intricate web applications efficiently, upholding stringent quality benchmarks throughout the development process.
- Showcase adept leadership abilities by guiding teams to achieve project milestones and deliver exceptional software solutions.
- Possess extensive expertise in cutting-edge front-end technologies and tools, ensuring adept utilization for optimal project outcomes.

### Professional Experience

#### Staff Software Engineer in GE Vernova, Bangalore, May'2018-Present

##### Key Result Areas:

- Driving continuous improvement in software development processes, leveraging Agile methodologies to enhance efficiency and quality.
- Mentoring and coaching junior engineers to foster a culture of innovation, collaboration, and technical excellence.
- Collaborating with cross-functional teams to define technical strategies and roadmap for product development.
- Conducting regular code reviews and ensuring adherence to coding best practices and architectural guidelines.
- Leading the design and implementation of scalable software solutions, ensuring alignment with business objectives and technical standards.

#### Technical Lead in Accion Labs, Bangalore, Jan'2015-Apr'2018

##### Key Result Areas:

- Led multiple successful software projects from inception to delivery, ensuring on-time and within-budget execution.
- Mentored and developed a team of software engineers, fostering their professional growth and technical capabilities.
- Defined and implemented technical strategies and architectural designs aligned with business goals and industry standards.
- Acted as a technical advisor to stakeholders, providing insights and recommendations on technology choices and solutions.
- Championed continuous learning and improvement initiatives within the team, enhancing productivity and delivery excellence.

## Previous Professional Experience

Software Engineer, Verizon, Chennai, Oct'2013-Jan'2015

Software Engineer in Aithent Technologies, Chennai, May'2011-Oct'2013

## Education

B.E., Computer Science and Engineering, Chennai, 2006-2010

## Projects Undertaken

**Title:** APM

**Environment:** React.js, Redux.js, Express, Knockout, Typescript & 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 technical architecture core team.
- Collaborated with stakeholders, including project managers and development teams, to align project requirements and constraints.
- Evaluated and recommended technologies, frameworks, and tools to support software development and meet business objectives.
- Provided guidance and technical leadership to development teams through code and architecture reviews, and mentoring.
- Introduced micro front ends and led complete frontend development efforts.

**Title:** MSA Life Science

**Environment:** AngularJS, Node, REST, Jenkins, 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 inception.
- Implemented numerous components and associated functionalities.
- Conducted product optimization to enhance performance and usability.
- Introduced unit tests and end-to-end testing methodologies.
- Implemented and maintained the CI/CD pipeline for seamless integration and deployment.

**Title:** ACSS

**Environment:** JavaScript, HTML and ExtJs

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

**Responsibilities:**

- Supported 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:** Java, Solr, 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.

The above given information's are true to best of my knowledge.

(Muthukumar J)