

MUTHUKUMAR JAYAMURUGAN

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.

Profile Summary

- Lead the development of scalable web applications across diverse industries for over 13 years, ensuring user-friendly interfaces and robust functionality.
- Directing and overseeing key projects as a Staff Software Engineer at GE Vernova, driving innovation and excellence in software development.
- Successfully guided the adoption of Agile methodologies, resulting in an increase in team productivity and meeting project deadlines.
- Reduced application load time by optimizing database queries and implementing caching strategies, enhancing overall performance.
- Designed and implemented a scalable microservices architecture, reducing server costs and improving system reliability.
- Conducted regular performance evaluations and career development plans, resulting in an improvement in team satisfaction scores.
- Successfully delivered major projects within budget and ahead of schedule, resulting in an 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:

- Leading the design and implementation of scalable software solutions, ensuring alignment with business objectives and technical standards.
- 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.

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.

	+91- 9094534141
	muthukcse@gmail.com
	muthukumar-jayamurugan
	https://muthukumar.tech/

Core Competencies

- Technical Leadership
- Software Development
- Architecture Design
- Team Management
- Code Review
- Problem Solving
- Project Management
- Agile Methodologies
- System Design
- API Development
- Performance Optimization
- Quality Assurance
- Continuous Integration/Continuous Deployment (CI/CD)
- Mentoring/Coaching
- Cross-functional Collaboration

Technical Skills

- Front-End: React.js, Redux.js, JavaScript, jQuery, HTML, CSS, SASS
- Back-End: Node.js, Express.js, Next.js
- Testing Frameworks: Jasmine-Karma, Playwright
- Tools: NPM, Web pack, Jenkins, Git Hub
- Others: Rally, Azure DevOps, AWS

Career Timeline

2018-Present	Staff Software Engineer in GE Vernova, Bangalore
2015-2018	Technical Lead in Accion Labs, Bangalore
2013-2015	Software Engineer, Verizon, Chennai
2011-2013	Software Engineer in Aithent Technologies, Chennai

Previous Professional Experience

Software Engineer, Verizon, Chennai, Oct'2013-Jan'2015
Software Engineer in Aithent Technologies, Chennai, May'2011-Oct'2013

Projects Undertaken

Title: APM / **Team Size:** 12
Environment: React, Redux, Node.js, 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 and design documents for the UI Extension 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.
- Participated in the full software development life cycle, from requirements gathering to deployment and ongoing maintenance.
- Introduced micro front ends and led complete frontend development efforts.

Title: MSA Life Science / **Team Size:** 4
Environment: AngularJS, 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 / **Team Size:** 80
Environment: Java, JavaScript, jQuery
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:

- Supported all phases of the development life cycle, including software evaluations and user support.
- Applied Agile Scrum practices to ensure efficient development and deployment.
- Provided application support and troubleshooting for enhanced customer service.

Title: eResearch / **Team Size:** 25
Environment: Java, Lucene/Solr, jQuery
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.
- Created web-based REST services to facilitate seamless data exchange.

Soft Skills

Communicator
Problem Solving
Critical Thinker
Motivator
Analytical

Education

<ul style="list-style-type: none">• B.E(CSE), Anna University, Kings Engineering college, Chennai, 2010

Personal Details

<ul style="list-style-type: none">• Date of Birth: 20th February, 1990• Languages Known: English and Tamil
--