

# Sathishkumar V C

## Full Stack Web Developer

 Portfolio |  sathishkumarvc99@gmail.com |  +91 7010393970 |  Coimbatore

### Summary

Full Stack Developer with 3+ years of hands-on experience building responsive web applications. Proficient in React.js, Node.js, Express, MongoDB, and MySQL, with a strong knowledge of AWS for cloud deployment. Skilled in performance optimization, reusable component architecture, and delivering scalable solutions in Agile environments.

### Skills

**Frontend:** React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Redux, MUI, Tailwind, Sass, Zustand.

**Backend:** Node.js, Express.js, REST APIs, Postman, Swagger, JWT, OAuth2.

**Databases:** MongoDB, MySQL, PostgreSQL, AWS RDS.

**Cloud & DevOps:** AWS (Lambda, S3, Amplify, RDS, CloudWatch, Bedrock), Docker, Git, GitHub, CI/CD, LLMs.

**Testing & Project Management:** Jest, ES-Lint, Agile, Scrum, Jira, Sprint Planning, Code review.

**Soft Skills:** Team Collaboration, Leadership, Continuous Learning, Work Ownership.

### Experience

#### MITRAHSOFT PVT LIMITED | Software Engineer (MERN), Coimbatore. (Mar 2023 – Present)

- Improved frontend performance by optimizing **React hooks, reusable components**, lazy loading, and **Suspense**, reducing re-renders and improving efficiency by 25%.
- Collaborated with **cross-functional offshore teams** to ensure 100% **on-time delivery** and accelerate communication, driving a 20% efficiency improvement.
- Led large-scale process optimizations and developed scalable **web architecture**, increasing completion rates by 20% and reducing operational costs by 15% while **mentoring** a team of 5 junior developers.

### Projects

#### MEA Insurance & AI-based Platform (React.js, Node.js, AWS Lambda, S3, Amplify, Bedrock)

- Implemented a scalable authentication flow using **Axios interceptors** to auto-refresh expired tokens, maintaining session integrity for **5,000+ active users**, and improving overall user retention.
- Engineered and **deployed AWS Lambda functions** to handle route-based logic execution, integrating **Amazon CloudWatch** for real-time monitoring, performance tracking, and debugging efficiency.
- Developed scalable data workflows using **Amazon S3, AWS RDS**, enabling multi-file uploads, Excel/JSON data transformations, and coordinated through **GitHub PR reviews** and deployed builds using **AWS Amplify**.
- Built an AI-powered chatbot** using **AWS Bedrock** with **Large Language Models (LLMs)** to generate real-time, context-aware text responses in real time.

#### HealthTech Web Application (Next.js (SSR), Node.js, Express.js, MySQL)

- Optimized a **Next.js (SSR)** application by refining the rendering pipeline, improving initial load **speed by 30%**.
- Integrated **Redux Toolkit** for optimized state management, cutting API latency by 20% and supporting 800+ requests/sec. Added **scroll-triggered animations** using modular Sass to enhance UI responsiveness.
- Architected a Node.js + Express backend with **Role-Based Access Control (RBAC)** and load-balanced REST APIs, improving request handling efficiency by **35% using middleware**.
- Designed and enhanced a **MySQL indexed schema** and improved database **cost efficiency by 15%**.

#### Employee Management Application (React.js, TypeScript, Node.js, Express.js, MongoDB)

- Built a secure and responsive employee management system with **React Router DOM** and **Context API**, implementing complex Formik forms with validation and multi-file uploads using Material UI.
- Architected modular Express.js backend with **Mongoose aggregation** and **Joi validation**, improving query performance by **30%** and ensuring secure data operations via **MongoDB Atlas**.

### Education

B.E. in Computer Science and Engineering - DGCT (Affiliated to Anna University), Salem, Tamil Nadu – 2020.

### Links

**GitHub:** Sathishkumar459 | **LinkedIn:** Sathishkumar-profile | **Certificates:** MERN-Stack