

SATHIYAMOORTHIM

JUNIOR SOFTWARE DEVELOPER

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🌐 sathiyamoorthi-madhesh 🐙 github.com/sathiyamoorthi-madhesh 🔗 portfolio

CAREER OBJECTIVES

Passionate Software Engineer seeking to apply my full-stack development skills to build high-performance applications and grow as a software professional in a challenging environment.

EXPERIENCE

Epicle Solutions Private Limited

Aug 2026 – Present
Chennai

Software Developer

- **Software Architecture & Engineering:** Designed and developed scalable full-stack applications using Angular, Node.js, Express.js, Python, FastAPI, and MongoDB, applying modular architecture, secure API design, performance optimization, and efficient data-processing strategies.

Jan 2025 – Aug 2026
Chennai

Junior Software Developer

- Developed full-stack **MEAN applications** using MongoDB, Express.js, Angular, Node.js, Tailwind CSS, and RxJS.
- Developed and enhanced **RCM Suite**, a healthcare Revenue Cycle Management platform supporting medical claims, eClaim processing, remittances, denials, and resubmissions.
- Built a **configurable claims validation/scrubbing engine** supporting regex, code-list, conditional, lookup-table, and custom validation rules.
- Implemented **AI-assisted MNEC/PRCE denial justification** with LLM guardrails, retry handling, rate limiting, and mandatory human review.
- Built scalable backend services and REST APIs with **Node.js**, optimizing MongoDB using aggregation, indexing, caching, and query tuning.
- Implemented **real-time communication and large-scale processing** using Socket.IO, Node.js streams, and worker threads; configured Jenkins CI/CD and Jest unit testing.
- Implemented **virtual scrolling** with **dynamic backend loading** to efficiently handle **lakhs of records**.
- Integrated **ElevenLabs AI IVR**, collaborated using **Git** and **Agile**, and **debugged production issues** ensuring **data accuracy**

SKILLS

- | | | |
|----------------------|--------------------------|-------------|
| • Angular | • Node.js | • MongoDB |
| • Socket Programming | • JWT, OAuth2, 2FA, OIDC | • Jest |
| • Jenkins | • OOPs | • Core Java |

AREAS OF INTEREST

Artificial Intelligence, Web Development, Mobile Application Development

PROJECTS

R-Cloud, *Healthcare Revenue Cycle Management Platform*

- Developed and enhanced large-scale healthcare RCM workflows for claims and billing.
- Implemented configurable **claims-scrubbing and validation rules** for medical claims.
- Worked with **government eClaim XML** generation and validation.
- Integrated **MNEC, PRCE, and DRS** components for claim/denial processing.
- Implemented **Redis-based processing flows, backend threading, and polling mechanisms** for long-running operations.
- Worked on **MNEC/PRCE AI-assisted denial justification** with human-review and compliance safeguards.
- Modernized and optimized **Angular applications** for improved performance and maintainability.
- Improved reliability, scalability, and performance across large-scale claim processing workflows and multi-tenant backend services.

Document Repository System(DRS)

- Developed a full-stack **RCM-DRS** using Angular 20+ and Node.js, featuring MongoDB-based document storage and search, worker-thread-powered batch downloads, real-time progress tracking with Socket.IO, role-based access control, request/response logging, and user session auditing with IP address tracking.

StayZo, *Full-Stack Property & Tenant Management Platform with Rent Tracking and Analytics*

- Developed a **rental management system** for PG/hostel properties, integrating dynamic room allocation, tenant management, rent tracking, payment reminders, expense/ledger management, and analytics dashboards for occupancy, revenue, pending rent, and availability.
- Developed scalable **Node.js/Express REST APIs** with MongoDB and responsive Angular + Tailwind UI with secure authentication.

CERTIFICATIONS

Infyspringboard Certified Java Developer — Completed introduction to java course in Infyspringboard.

Introduction to Internet of Things — Introduction to Internet of Things | Completed NPTEL Course on Introduction to Internet of Things with an Elite Silver Certificate.

EDUCATION QUALIFICATION

2021 – 2025	B.Tech Information Technology,
Perundurai, Erode	<i>Erode Sengunthar Engineering College (Autonomous)</i>
	(7.3 CGPA)

EXTRA - CURRICULAR

Project Manager, *Talent Quest for India*

- Managed and coordinated **400+ college volunteers across multiple institutions in TamilNadu.** Designed and delivered training programs to equip volunteers in conducting holistic development sessions for school students. Oversaw end-to-end program execution, ensuring quality, consistency, and impactful student engagement.