

MOHAMED NASSAAR M

Software Developer

Chennai, Tamil Nadu

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Open to relocation | Available for sponsorship

PROFILE SUMMARY

Backend Developer with **3 years of experience** building scalable backend systems using **Node.js, Express.js**, and **PostgreSQL**. Skilled in **REST APIs, JWT authentication, microservices, database optimization, Redis caching**, and **RabbitMQ-based asynchronous processing**, with experience using **GraphQL** for efficient nested data fetching. Strong focus on **clean code, system reliability, and Agile collaboration**.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript
- **Frontend Technologies:** HTML5, CSS3, React.js, Hooks, Bootstrap5, Material UI, Axios
- **Backend Technologies:** Node.js, Express.js, GraphQL, REST APIs, Microservices, File Handling, Multer, Cron
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite3 , Sequelize (ORM)
- **Devops & Tools:** Git, GitHub, Docker, Redis, RabbitMQ, AWS (Basics)
- **Testing & Logging Tools:** Jest, Postman, Winston
- **Security:** JSON Web Tokens (JWT), Bcrypt, CORS
- **Development Methodologies:** Agile (Scrum)

PROFESSIONAL EXPERIENCE

Junior Software Engineer | Jan 2023 - Present

[Signals & Systems \(India\) Private Limited](#) - Chennai, Tamil Nadu

A private limited **product based** company

- Led efforts to identify and address **performance issues** in key APIs, including **GraphQL** endpoints, by optimizing **query design** and adding **indexing**, improving response times during peak usage.
- Strengthened backend **security** by implementing **JWT-based role authentication** and adding **middleware validations**, reducing unauthorized access attempts.
- Improved internal **cron-based job schedulers** and **error-handling workflows**, helping minimize failures and ensuring scheduled tasks ran reliably.
- **Collaborated with developers** and **project leads** across teams to deliver multiple **full-stack feature updates** on time and aligned with business requirements.

PROJECTS

➤ Project Management System

Built a project management platform similar to Zoho Projects, supporting **projects, task groups, tasks, subtasks, and issue tracking**. Designed for secure **role-based collaboration** and efficient workflow automation.

- Developed **REST** and **GraphQL APIs** using Node.js and Express.js for project, task, and issue management.
- Implemented **role-based access control (RBAC)** with **JWT authentication** for secure multi-user access.
- Designed **PostgreSQL schemas** for projects, task groups, tasks, subtasks, and issue relationships.
- Applied **Redis caching** for frequently accessed project and task hierarchy data to improve API response times and reduce database load.
- Integrated **RabbitMQ** for **asynchronous background processing** such as notifications and activity logging, improving system responsiveness.
- Automated **reminders, overdue notifications, and progress updates** using **Cron jobs**, with strong **data validation** and **API testing**.

Tech Stack: Node.js, Express.js, GraphQL, PostgreSQL, Redis, RabbitMQ, Rest APIs, Microservices, JSON Web Tokens (JWT), Cron Jobs

➤ Inventory Management System

Built a backend system for **real-time tracking** of product quantity and pricing during movement from storage to production. Used **custom PostgreSQL functions** and **modular APIs** to handle complex product structures and ensure **data accuracy**.

- Developed **REST APIs** using **Node.js** and **Express.js** for inventory integration.
- Designed efficient **PostgreSQL schemas** and **functions** to manage multi-variant products.
- Enabled **real-time product tracking** and implemented **validation logic** for quantity and cost.
- Secured endpoints using **JWT authentication** and custom middleware.
- Implemented **PostgreSQL transactions** to ensure **atomic** updates during product movement between storage and production.
- Used **transaction-based logic** to maintain consistency for quantity and **cost** updates across related **tables**.
- Conducted **API testing and debugging** to ensure reliability.
- Documented **system architecture** and **data models** for future scaling.

Tech Stack: Node.js, Express.js, PostgreSQL, Postgres Function, Rest APIs, Microservices, JSON Web Tokens (JWT)

EDUCATION

Bachelor Of Engineering (Computer Science) - Keelakarai, Ramanathapuram, Tamil Nadu

Mohamed Sathak Engineering College

CGPA - 7.9

Aug 2018 - Jul 2022

ACHIEVEMENTS & CERTIFICATIONS

- [Back End Development and APIs](#)

Certification focused on back end development, including API creation.

- [Legacy JavaScript Algorithms and Data Structures](#)

Certification covering fundamental JavaScript algorithms and data structures.