

MOHAMED NASSAAR M



Software Developer

Chennai, Tamil Nadu

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PROFILE SUMMARY

I am a **Backend Developer** with over **2 years of experience** specializing in building **robust, scalable backend systems** and **APIs**. Proficient in **Node.js**, **Express.js**, and **PostgreSQL**, with a strong track record in designing **efficient database schemas** and developing **high-performance microservices**. Skilled in integrating **MongoDB Atlas** for **cloud deployments** and ensuring **data integrity** through **JWT authentication** and secure **RESTful APIs**. Experienced in **real-time data tracking** and **inventory management**, with a hands-on approach to **problem-solving**, **code optimization**, and **collaborative teamwork** to align **technical solutions** with **business goals**. Additionally, I have **proficiency in React.js**, including its **component-based architecture** and **state management**, enabling me to contribute to **full-stack development** and deliver seamless **user experiences**.

TECHNICAL SKILLS

- **Programming Languages** : JavaScript, JAVA ,PHP
- **Backend Technologies** : Node.js, Express.js, RESTful API's, Microservies, File Handling, Multer, Cron
- **Databases** : PostgreSQL, MYSQL, MongoDB, SQLite3 , Sequelize (ORM)
- **Frontend Technologies** : HTML5, CSS3, React.js, Hooks, Bootstrap5, Material UI, Axios
- **Devops & Tools** : GIT, GITHUB, NETLIFY
- **Testing & Logging Tools** : Jest, Apache Benchmark, Postman, Winston
- **Security** : JSON Web Tokens (JWT), Bcrypt, Cors
- **Development Methodologies** : Agile (Scrum)

PROFESSIONAL EXPERIENCE

Junior Software Engineer - 2 Years

[Signals & Systems \(India\) Private Limited](#)

A private limited **product based** company

Chennai, TAMIL NADU

01/2023 - Present

- **Reduced API response times by 30%** by optimizing **PostgreSQL schemas** and fine-tuning queries, enhancing user experience and system efficiency.
- **Increased data security and compliance** with robust **JWT authentication** and data validation practices, leading to a **40% reduction in unauthorized access attempts**.
- **Improved system reliability** by implementing error-handling and scheduling optimizations, reducing inconsistencies by **25%** and ensuring consistent data processing.
- **Collaborated across departments** to deliver three major feature updates, completing each on schedule, which boosted feature functionality and backend stability

PROJECTS

➤ Inventory Management System :

Developed a system for **real-time tracking of product quantities and pricing** from storage to production, using **Node.js**, **Express.js**, and **PostgreSQL**. Managed **complex product structures** with custom database functions and APIs, enabling efficient inventory control aligned with business needs.

Roles & Responsibilities :

01/2024 - 08/2024

- **API Development:** Created and maintained **RESTful APIs** with **Node.js** and **Express.js** for seamless integration across inventory modules.

- **Database Design:** Designed **PostgreSQL** schemas and custom functions to handle complex product structures, enhancing scalability and performance.
- **Product Tracking:** Enabled real-time tracking of product quantities and prices from storage to production, ensuring data reliability.
- **Data Integrity:** Applied validation checks for accurate tracking of inventory quantity and cost.
- **Team Collaboration:** Worked with product managers and developers to align solutions with business goals.
- **Testing & QA:** Conducted thorough testing and debugging of APIs and database functions for reliable operation.
- **Security:** Integrated **JWT** authentication for secure access and compliance.
- **Documentation:** Documented system architecture, APIs, and data models to support maintenance and scalability.

Technologies Used : Node Js, Express JS, PostgreSQL, Postgres Function, Postman, Restful API's, Microservices.JSON Web Tokens (JWT), Cors,Cron.

➤ Location Monitor :

The **Location Monitoring System** is a real-time tracking app that collects **latitude and longitude** data from mobile devices every 5 minutes. Built with **Node.js**, **Express.js**, and **PostgreSQL**, it uses custom database functions and **JWT authentication** to securely process, store, and analyze location data, ensuring accurate user tracking and data integrity through efficient scheduling and validation.

Roles & Responsibilities :

07/2023 - 11/2023

- **API Development:** Built and maintained **RESTful APIs** with **Node.js** and **Express.js** for real-time location tracking, collecting data every 5 minutes.
- **Database Design:** Created optimized **PostgreSQL** schemas with indexing for high-frequency location data.
- **Location Analysis:** Implemented logic to process GPS data for precise user location insights.
- **JWT Security:** Secured data transmission with **JWT** authentication, allowing only authorized data access.
- **Data Scheduling:** Used **cron jobs** for consistent 5-minute data updates, ensuring system performance.
- **Data Validation:** Applied rules to ensure accuracy in incoming GPS data, reducing errors.
- **Cross-Functional Collaboration:** Worked with teams to ensure effective visualization and alignment with user needs.
- **Testing & QA:** Performed extensive testing to ensure accurate tracking and reliability.
- **Documentation:** Documented APIs, database, and security protocols to support maintenance and scalability.

Technologies Used : Node Js, Express JS, PostgreSQL,JSON Web Tokens (JWT), Postman, Restful API's, Microservices. Cors,Cron.

EDUCATION

Bachelor Of Engineering (Computer Science)

Keelakarai, Ramanathapuram, TAMIL NADU

Mohamed Sathak Engineering College

CGPA - 7.9

08/2018 - 07/2022

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.