

SANDEEP JALAL

Software Developer
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Experienced backend developer skilled in designing scalable systems using Node.js, PostgreSQL, and Redis. Proficient in microservice architecture, API development, performance optimization, secure access control, and efficient data handling across platforms.

PROFESSIONAL EXPERIENCE

Wingman Partners, Noida

July 2020 - Present

ForeverCheese

- Developed and maintained **Node.js APIs** to enhance and support front-end functionality.
- Implemented robust **authentication and authorisation** mechanisms using **JWT**.
- Designed and implemented database triggers** to automatically generate audit records for CRUD operations, enhancing data traceability and compliance.
- Developed and deployed Azure Functions** to execute scheduled tasks, such as updating database records for event activations, ensuring timely and automated data updates.
- Developed JavaScript scripts** to configure and modify existing databases, ensuring seamless execution as part of pre-deployment processes.

Rigado

- Designed and implemented a system for managing and updating devices connected to a gateway, ensuring seamless **integration with Azure IoT Hub**.
- Developed methods to generate firmware file chunks, optimizing data transmission to the IoT Hub.
- Utilized Azure IoT Hub to manage and communicate with gateway, supporting seamless updates and connectivity.

Cloud Cost Analysis

- Initiated and developed a project from the ground up**, leveraging **microservice architecture** to ensure scalability, modularity, and efficient deployment.
- Designed and implemented Role-Based Access Control (RBAC)** functionality to manage user permissions and ensure secure access control across the system.
- Implemented **SSE** functionality to send events to browser.
- Developed automated cron jobs** to fetch, process, and store data from multiple cloud platforms into PostgreSQL databases, ensuring seamless integration and efficient data management.

PowerBI Replica Dashboard

- Implemented API endpoints to efficiently fetch and transform data from **Google BigQuery**.
- Developed a Proof of Concept (POC) and successfully delivered project replicating core Power BI functionality, showcasing data visualisation, interactive dashboards, and reporting capabilities. Successfully implemented Power BI functions to demonstrate data insights and analytics within the project environment.

COBO(Network Monitoring System)

- Transformed ARM-based architecture code to x86 architecture**, ensuring cross-platform compatibility.
- Optimised code using **child processes, hashing, and multi-threading** for improved performance, achieving up to **70% efficiency**.
- Replaced earlier database calls with **Redis-based caching mechanisms**, optimising data retrieval and processing to significantly enhance application performance and achieve up to **90% efficiency**.

EDUCATION

Master of Computer Applications - AKTU

Aug 2018 - May 2020

72%

Bachelor of Computer Applications - CCSU

Aug 2015 - May 2018

74%

SKILLS

Programming

C, JavaScript

Project Collaboration Tools

Git, Jira, Slack, MS Teams

Database

PostgreSQL, Redis, BigQuery

Framework

Node.js, Express.js, React JS

Deployment & Containerization

Docker, CI/CD

Cloud

AWS