Tufail karim

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BACKEND ENGINEER

Backend Engineer with 4 years of experience building scalable, high-performance applications across **Education, Legal, HRMS, and Financial domains**. Experienced in designing and developing **Microservices-based architectures**, **RESTful APIs**, and **E-commerce backend systems** using Node.js, Nest.js, Spring Boot, Docker, and cloud platforms..

TECHNICAL SKILLS

Languages	:	JavaScript, Typescript, Java, HTML, CSS
Frameworks	:	Node.js, Express.js, Nest.js, Spring Boot
Databases	:	MongoDB, Mongoose, TypeORM, MySQL, Sequelize, PostgreSQL, Redis
Deployment	:	Linux, GCP, AWS, Docker, Git, CI/CD, Jenkins, CircleCI
Management	:	Agile, Jira, Kanban, Miro,Scrum
Power Platform	:	PowerApps, Power Automate, SharePoint

WORK EXPERIENCE

Software Engineer   Sep-2022 – Till Now
Mindnerves Technology service Pvt.Ltd (Deputed to BSH Home Appliances India)   *Bengaluru, Karnataka, India*

- Built **Role-Based Authentication** with secure user authentication and admin-approved login for new users, ensuring 99% enhanced security, using Node.js, Express.js.
- Sent **automated case notifications** to lawyers a week before hearings (excluding weekends) and maintain litigation history, reducing missed hearings and **cutting legal team effort by 30%**.
- Refactored code and optimized database queries to **reduce average response time by 30%.**
- Designed a **Multi-Level Approval Workflow** for dealership requests, **reducing processing time from a month to 10–15 days** by streamlining approvals based on credit days.
- Integrated DocuSign for e-signatures in dealership approvals, **reducing signature processing time from 4–5 days to just 1 day**, using Node.js and Express.js.
- Boosted server **stability 20%** by optimizing configurations and automating monitoring, **reducing downtime from 10% to 8%.**
- Developed an E-Work Permit feature for **Chennai factory users** to track overdue permits, enforce timely inspections, and **prevent 80–90% chances of disasters**, using Java, Spring Boot, PostgreSQL.
- Deployed scalable apps on GCP VM Instances and Cloud Storage, **enabling 30% faster deployment cycles, 99.9% uptime,** and secure multimedia management
- Constructed the **Vendor Resume Tracking module** to streamline hiring and track vendor performance, **reducing 15% of HR team effort** in maintaining candidate resume details., using Java, Spring Boot, MySQL, React.js, and Material-UI.
- Streamlined price assessments in the Pricing Evaluation application, **improving efficiency and accuracy by 100%** with automated workflows and an intuitive interface using Power Apps and SharePoint.
- Orchestrated the Disposal Application to automate and streamline the **asset disposal process in Thailand**, ensuring 100% compliance using Power Apps, Power Automate, and SharePoint.

Web Developer   Jan-2022 – Aug-2022
Qodestek   *Gandhinagar,Gujarat , India*

- Designed a **high-performance RESTful API** for efficient data exchange, resulting in a 20% reduction in data transfer time.
- Integrated **Sentry for exception monitoring** using Node.js Nest.js, enabling 100% automatic error reporting to Microsoft Teams.
- Implemented a **login system with Keycloak (OpenID Connect)**, offering 100% compatibility with Gmail, Microsoft Teams, Facebook, and mobile number logins.
- Engineered a global try-catch mechanism (Node.js/Nest.js) **for Skill India app, slashing code redundancy by 10% and ensuring 100% consistent error handling** through streamlined, system-wide exception management.
- Create 20+ RESTful APIs for **the Skill India Application** using Node.js and Nest.js, enabling functionalities such as user registration, login, Aadhaar verification, sector search, apprenticeship lookup, and more.

EDUCATION

Indira Gandhi National Open University   New Delhi, India
Bachelor's in Computer Application   Jun-2015 – Jun-2018

Indira Gandhi National Open University   New Delhi, India
Master's in Computer Application   Jun-2018 – Dec-2020

PROJECTS

WARD PROBLEM SOLUTION SYSTEM   *Node.js, Express.js, JavaScript, MongoDB, EJS, CSS, Bootstrap, HTML*

- Launched and maintained cloud-based infrastructure using Google App Engine for deploying solutions related to ward challenges; optimized performance metrics led to improved uptime reliability assessed at above 99%.

E-COMMERCE BACKEND (Microservices Architecture) *Node.js, NestJS, Express.js, Spring Boot, MySQL, MongoDB, Docker, Redis*

- Designed and developed Microservices-based backend architecture for an E-commerce application, separating services for User, Product, Order, Payment, and Inventory to improve scalability and maintainability.
- Containerized Microservices using Docker, enabling environment consistency and faster deployments.
- Implemented inter-service communication using REST APIs, ensuring loose coupling and independent deployments.
- Applied database-per-service approach using MySQL/MongoDB to avoid tight coupling across services.

AWARDS ACHIEVEMENTS

- **Top Performer** of the Month award for developing and integrating the product offer module
- **Reduced server costs by 35%** by switching from performance disks to balanced disks, aligning storage performance with application requirements.
- Acknowledged for troubleshooting and resolving multiple **critical business** issues

CERTIFICATIONS

- Udemy Certified: Node.js Developer
- Udemy Certified JavaScript Developer
- Coursera Certification: Learning how to Learn