MUHAMMAD USMAN

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Hardworking and technically proficient Engineer who thrives when facing challenges and tackling complex problems. Works well with business leaders to understand business issues and define system requirements. Looking for a challenging role in a reputable organization to utilize my technical, database, and management skills for the growth of the organization as well as to enhance my knowledge about new and emerging trends in the IT sector.

EXPERIENCE

AUG 2021 – PRESENT
SOFTWARE ENGINEER, MICROMERGER PVT. LTD.

- **PYTHON / ERPNext**
  - Spearheaded projects for the Sindh government, including the **Sindh School Daily Monitoring System (SSDMS), School Education and Literacy Department (SELD)** and **Directorate General of Monitoring and Evaluation (DGME)**.
  - Collaborated on **UNICEF** initiatives in Pakistan, such as **Safe Space** and **Child Protection**, employing Frappe, Python, and JavaScript to architect and implement innovative solutions.
  - Integrated four government projects into a single project for data transparency and comparison.
  - **Completely customized the design** of the Frappe Framework for our projects using an app-based approach.
  - Personalized ERP systems using Python and JavaScript to align with unique business processes.
  - Played a pivotal role in constructing diverse ERP systems for prominent clients like **Pakistan State Oil**, and **Sindh Government School Automation**, among others.
  - Devised Python scripts to generate and tailor reports, streamlining data analysis and facilitating comprehensive reviews.
  - Created progress dashboards, web-forms as per requirements of project.
  - Implemented python code to generate or customize reports for more organized and easier to check overall review.

- **NEST.JS**
  - Worked as Back-end developer for different projects like Falaya.com etc.
  - Implemented **AWS Lambda** Functions for different automations like Pdf processing.
  - Created APIs for different web applications and organized existing APIs for better understanding.
  - integrated push notifications for web and mobile applications with coordination of front-end team.
  - Used AWS different services like **S3**, **Lambda** and **EC2** etc.
  - GET/POST/PUT/DELETE (CRUD) methods.
  - Integrated SMS services providers like **Twilio** and **InfoBip** for sending verification codeto login or notify.

MAR 2020 – JUL 2021

- **NODE.JS**
    - Part of team that restructured the Back-End for Asasa.com to make it more scalable and robust
    - Development of **RESTful** APIs using Node.js for mobile and web application of Asasa.com.
    - Worked on **MongoDB** aggregation and queries.
    - Implementing text search mechanism on MongoDB.
    - GET/POST/PUT/DELETE (CRUD) methods using **Express.js** framework.
    - Worked on designing MongoDB schema and architecture for Back-End services.
    - Implemented coding best practices and developed design documents for tracking progress and easier maintenance.
    - Deployed Back-End Node.js application to i.e **Heroku**.
    - Implemented **Firebase Cloud Messaging** for mobile application notifications.
    - Worked on **Socket.io** for push notifications website.

SKILLS

- Node.js / Nest.js
- MongoDB / MariaDB / SQL
- Web Services (RESTful APIs)
- GitHub / Version Control

- Python / ERPNext / Frappe
- Express.js
- AWS Services
- ReactJS

EDUCATION

2019
BS SOFTWARE ENGINEERING, INTERNATIONAL ISLAMIC UNIVERSITY, ISLAMABAD
2012
FSC PRE-ENGINEERING, SUPERIOR GROUP OF COLLEGES, GUJRANWALA
2010
MATRIC, GOVT. M.T HIGH SCHOOL, GUJRANWALA

EXTRA ACTIVITIES

- Worked as a team lead for events management in school, college, university and at previous companies.
- Started my own management company during my education period and got a great response and experience in management.
- Also worked as a photographer for Govt., private and various events.

REFERENCE

Can be provided upon request.