Ratnesh Pandey

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Technical Skills

Languages and Frameworks: JavaScript, TypeScript, Node.js, Express.js, NestJS, HTML/CSS
Databases: MongoDB, PostgreSQL
Other Skills: Docker, AWS EC2, S3, SES, Microservices

Experience/Projects

Tericsoft Technology Solutions Pvt Ltd   **November 2022 – Present**
Backend Developer   *Hyderabad, India*
Project 1: US-based Physiotherapist Hospital Management Web App

- **Accomplished a 40% improvement in overall application performance** by implementing a **microservice architecture** to manage Doctors, Patients, Medical Records, Appointments, Billing, and Inventory
- **Reduced API response time by 50%** by implementing message broker (RabbitMQ) and by concurrently handling database queries which led to an improvement in user experience by 30%
- **Reduced PDF generation time by 20%** by migrating to a Python-based microservice, removing the browser overhead of packages like Puppeteer
- Reduced debugging time by 30% by implementing AWS X-Ray for API tracing
- Node.js, Express.js, TypeScript, Python, MongoDB, Docker, AWS S3, SES, EC2, ECS, RabbitMQ

Project 2: US-based Casino Mobile Application

- Improved scalability and reduced maintenance efforts by **30% by implementing a modular monolithic** architecture
- Enhanced user engagement by 25% through the delivery of real-time communication with a WebSocket-based chat feature
- NestJS, TypeScript, Web sockets, Docker

Project 3: An EV Company Vehicle Management System

- Developed the backend of a vehicle management app for parking hubs which **led to 30% increase in their operational efficiency**
- Implemented role-based access control (RBAC) for 5 distinct user roles, including supervisors and security personnel
- JavaScript, Node.js, Express.js

Education

Maulana Abul Kalam Azad University of Technology   **August 2015 – July 2019**
B.Tech in Mechanical Engineering
Kolkata, West Bengal