Mehul Panchal

Software Engineer

Accomplished Microsoft Certified Professional and Full Stack Software Developer with comprehensive knowledge of frontend, backend, database management, as well as cloud computing. Delivered production-grade applications leveraging cutting-edge technologies. Adept at solving complex technical challenges.

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Technical Skills:

Frontend Technologies:
React JS, Next.js, Zustand, Typescript, Javascript, Tailwind,

React Query, Azure Bot Framework

Backend Technologies:
Node JS, Express JS

Database Management:
SQL, Mongo DB

Microservices:
Redis, Kafka, Docker, Kubernetes,

Version Control:
Git

Cloud Platforms:
Microsoft Azure

Certifications:

Azure (Az 900)
Certification number:
C6F625-52ACET

Education:

RTU Kota, BTech IT:
Aug 2018 - Jul 2022
Grade: 8.1 GPA

Internship:

Wagar Eduction:
Informative Website
Jan 2021 - May 2022

Experience:

Company Name : Celebal Technology | Jaipur - Jul'2022 to Present
Project: Enterprise ESG Reporting Platform

- Designed frontend with Next.js and TypeScript.
- Architected a backend microservice architecture using Node.js and Express.js to enable seamless communication between components.
- Integrating diverse data sources and advanced algorithms for insights.
- Automated multi-source data fetching and preprocessing efficiently
- Developed organization-level role management system ensuring limited data access.
- Chatbot for real-time graphical data visualization and representation.
- Queue system for single-user, sequential processing of flows.
- Secured frontend using Microsoft Authentication.

Tools and Technologies: Microsoft SQL Server, Next.js, TypeScript, Tailwind, React Query, Azure AD B2C login, OAuth 2.0, Node JS, Express JS, Docker, Azure DevOps, Zustand

Pilot Project 1: Enterprise Chatbot Integration with Super App as search bar

- Developed an interactive AI bot using Socket.io for streaming responses and real-time updates to the analytical dashboard.
- Enabled speech-to-text and text-to-speech functionality using Azure Speech Services.
- Developed real-time 3D bots using client sales team photos.
- Created a user-friendly web app dashboard using React.js and Material-UI.
- Real time Analytical dashboard socket Io with real time update of user interaction in charts.
- Implemented Avamo calling feature for seamless audio communication with live agents.
- Integrated intelligent chat functionalities for personalized customer interactions.

Tools and Technologies: React JS, Tailwind, Material Ui, Socket Io, Avamo , Azure App Service, Azure DevOps, CI/CD, Azure Cognitive Services (Voice to Text).

Pilot Project 2: VoiceStream Analytics

- Streaming voice data capture and speech recognition with Transcription and keyword-based searching.
- implementing dashboards for visualizing behavioral insights and data analytics.

Tools and Technologies: React JS, Bootstrap, Socket IO, Highcharts, Azure Cognitive Services(Voice to Text), Azure App Service

Personal Project : Secure Real-Time File Transfer System

- Developed a secure file transfer app using chunk encryption and real-time transmission.
- Developed a frontend for file uploads with unique links, QR codes, and progress bars.
- Implemented backend with socket connections for direct peer-to-peer communication.
- Ensured encrypted file transmission without backend intervention, enhancing security and efficiency.

Tools and Technologies: React JS, AES encryption, Socket IO, Node JS, Express JS