Dwaipayan Sardar

Senior Software Engineer, Vitra.ai

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Results-driven Senior Software Engineer with 4+ years of expertise in full-stack development, specializing in React, Next.js, and multilingual translation technologies. Proven track record of delivering innovative software solutions that enhance user experience and drive technological innovation.

PROJECTS

Personalized Video Creation Project for Mahindra Tractors

Led development of an AI-powered video personalization platform for Mahindra Tractors' 60th anniversary campaign

- Integrated Vitra.ai's facial augmentation technology to create personalized tractor driving experiences in multiple regional languages
- Designed streamlined user flow enabling customers to receive customized videos via WhatsApp
- Increased customer engagement through immersive technology, strengthening brand connection with farming community

Bhasha Sarathi

A React Native mobile app for real-time speech-to-speech translation between any languages. Works offline to break language barriers in communication.
Key Features:
- Instant Translation: Real-time speech translation.
- Offline Mode: Functions without internet.
- Multilingual Support: Bridges communication gaps across languages.

Translate Website & App

Architected a no-code translation platform supporting websites and mobile applications with comprehensive e-commerce integration

- Engineered automated translation system with currency conversion supporting 250+ currencies and Shopify integration
- Developed cross-platform compatibility for React Native and Android Native applications, ensuring seamless mobile translations
- Optimized database architecture and caching mechanisms for high-performance multilingual content delivery

QBMS - Intelligent Question Bank Management System

Developed an AI-powered question management platform using Next.js, Nest.js, and MongoDB, Langchain with LLM integration

- Engineered RAG (Retrieval Augmented Generation) pipeline using LangChain for automated question extraction from PDFs and images
- Implemented Bloom's Taxonomy classification system for intelligent question categorization and organization
- Built scalable architecture supporting multi-format document processing and question generation
- Designed RESTful APIs for seamless question management, retrieval, and categorization

SKILLS

- Frontend: React JS, Next JS, Tailwind CSS
- Backend: Node JS, Express JS, Nest JS, Socket.io
- Databases: PostgreSQL, MySQL, Mongo DB, Redis
- Cloud: AWS, Azure, GCP
- Languages: C++, Java, Python, JavaScript, TypeScript
- Mobile App: Android Native, Flutter, React Native
- AI Tech: LLM, Langchain, RAG

EDUCATION

B.Sc. (Hons) Computer Science
Acharya Prafulla Chandra College, 24 Pgs.(N)
July 2018 - June 2021
9.66 CGPA

M.Sc. Computer Science
Acharya Prafulla Chandra College, 24 Pgs.(N)
July 2021 - June 2023
9.96 CGPA

PROFESSIONAL EXPERIENCE

Software Development Intern (Remote)
Vitra.ai, Bengaluru
February 2021 - August 2023

Software Engineer
Vitra.ai, Bengaluru
August 2023 - March 2024

Senior Software Engineer
Vitra.ai, Bengaluru
April 2024 - Ongoing

CERTIFICATIONS

Docker
KodeKloud
Issued Sep 2024

HONORS & AWARDS

Future Hack - Hackathon 2.0: 2nd Place
Chatbot as a replacement of dashboard

Future Hack - Hackathon 3.0: 1st Place
Bhasha Sarathi- Realtime Offline Speech Translation App

TOOLS

Docker
Grafana
Prometheus
Playwright
Puppeteer
Crawlee