CHEEDELLA SIVA SAI JAHNAVI

React & Generative AI Developer

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🔗 https://jahnavicheedella.github.io/jahnavi-portfolio/

PROFILE

Highly motivated Frontend React Developer and Generative AI Enthusiast specializing in building high-performance, responsive, and cross-device applications. Expertise spans the full MERN stack (React, Node.js, Express, MongoDB) and includes advanced skills in intelligent automation using Python, PyTorch, NLP, RAG, LangChain, and Prompt Engineering to deliver innovative, data-driven AI solutions.

SKILLS

Frontend: HTML5/CSS3 · JavaScript(ES6+) · TypeScript · React.js · Next.js · Redux(RTK) · REST APIs/GraphQL · Redux(RTK)

Backend/Full Stack: Python · NumPy · Pandas · PyTorch · NLP · LangChain · Generative AI · RAG · Prompt & Context Engineering

Other Tools: GitHub · Linux · Label Studio

EXPERIENCE

React & Generative AI Developer
October 2024 - Present

TrueID • Hyderabad

- Engineered and maintained responsive, high-performance web applications utilizing React, TypeScript, and Redux(RTK), ensuring adherence to clean architecture and accessibility standards.
- Implemented Redux Toolkit (RTK) for robust state management and leveraged TypeScript to ensure type safety, resulting in highly maintainable codebases.
- Elevated UI/UX standards by integrating modern design patterns, optimizing application performance, and strictly adhering to accessibility guidelines.
- Constructed intelligent, context-aware automation workflows utilizing Generative AI, NLP, and LangChain, delivering innovative software solutions.
- Optimized AI interactions and enhanced model understanding in automation projects through strategic Prompt and Context Engineering techniques.

React JS Intern

July 2024 - October 2024

TrueID • Hyderabad

- Developed and optimized reusable React JS components, emphasizing responsive design, modern hooks, and efficient component library creation.
- Integrated RESTful APIs and essential third-party libraries, significantly enhancing application functionality and overall performance.
- Collaborated effectively within agile frameworks, participating in code reviews and sprint planning to boost UI efficiency.
- Applied development best practices to ensure highly maintainable, accessible, and performance-improved code delivery.

UI Developer Intern

June 2024 - July 2024

BVM CS IT Services • Hyderabad

- Designed and implemented pixel-perfect static websites using semantic HTML5 structures and responsive CSS3 layouts.
- Enforced mobile-first design principles, ensuring seamless cross-device compatibility.
- Utilized core web development fundamentals, including box model, positioning, and media queries, to achieve precise layout control.
- Maintained high standards for accessibility and clean design through best practices in semantic markup.

NOTABLE ACHIEVEMENTS

- ✅ Constructed intelligent, context-aware automation workflows utilizing Generative AI, NLP, and LangChain, delivering innovative software solutions in a professional environment.

- ✅ Built a Retrieval-Augmented Generation (RAG) chatbot using React, Flask, and HuggingFace models, capable of providing accurate, non-hallucinated responses from external knowledge sources.

- ✅ Led UI enhancements for the KYC Update Portal and Identity Management Portal, integrating the Innovatrics SDK for automatic document and face capture, significantly improving performance and optimizing responsive layouts across all devices.

PROJECTS

TrueID Image Verification Portal

Full Stack Developer

Technologies: React.js, Python, PostgreSQL, Firebase

Developed an interactive image verification portal with dynamic React.js UI, enabling drag-and-drop uploads, Firebase authentication, real-time verification via API integration and seamless backend data management using python and PostgreSQL.

RAG Q&A Chatbot

Full Stack Developer

Technologies: React.js, Python, Flask, LangChain, FAISS, HuggingFace, Prompt Engineering

Built a Retrieval-Augmented Generation (RAG) chatbot that accesses external knowledge sources (Wikipedia, URLs, PDFs) to deliver accurate and up-to-date answers.

AI Image Generator

Generative AI Developer

Technologies: React.js, Node.js, Express, Google Gemini API, Prompt Engineering

Built a full-stack web application transforming text prompts into AI-generated images via the Google Gemini API, ensuring a seamless user experience.

KYC Update Portal

Frontend Developer

Technologies: React.js, Redux(RTK)

Led UI enhancements and integrated new functionalities for the KYC update portal, optimizing components and layouts for improved performance and user satisfaction.

E-Commerce web Application

Full Stack (MERN) Developer

Technologies: React.js, Redux(RTK), Node.js, Express, MongoDB

Implemented a secure, full-stack MERN e-commerce application featuring product catalog, cart functionality, and server-side authentication.

Custom Object Training and Segmentation for Drone Imagery Using YOLO Model

AI/ML Developer

Technologies: Label Studio, E2ENetworks TIR, Python, YOLO

Trained YOLOv11x for complex object segmentation on drone imagery, focusing on features like buildings, roads, trees, and vehicles.

Training and prediction of AI Deepfake Vs Real face image detection model

AI/ML Developer

Technologies: Linux, Git Bash GUI, Python

Worked with a pre-trained Vision Transformer model to detect AI-generated deepfakes, morphs, swaps, and digitally injected faces.

Identity Management Portal

Frontend Developer

Technologies: React.js

Contributed to the UI development of IDM demo interfaces, focusing on user-friendly design, mobile responsiveness, and real-time identity verification features (auto document & face capture).

Acquiring Portal

Frontend Developer

Technologies: React, Typescript, Redux(RTK)

Created robust, type-safe UI components using React and TypeScript, emphasizing clear interfaces to prevent runtime errors and improve developer productivity.

Clustering Portal

Frontend Developer

Technologies: React.js, Redux(RTK)

Constructed dynamic and interactive UI components leveraging React and Redux(RTK) for seamless, scalable state management across the application.

EDUCATION

Bachelor of Technology (B.Tech)

Prakasam Engineering College

September 2020 - May 2024

Achieved 8.0/10.0 CGPA