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Alaa Emam

Github Profile
Personal Site
LinkedIn

Summary

Frontend Engineer (Javascript, React and Vue) with **3 years** of experience. Strong ownership mindset, proficient in frontend technologies, excellent communication and collaboration skills, and a passion for learning and adapting to new technologies

Professional Experience

Front-End Developer <div align="right">Oct 2023- Present</div>

RDI <div align="right">*Hybrid, Egypt*</div>

- RDI, also known as The Engineering Company for the Development of Digital Systems, is a leading company in producing Optical Character Recognition (OCR) Technologies, Natural Language Processing (NLP) Technologies, and Speech Technologies. The company offers unique and innovative applications and software such as ID Reader, Speech to Text, Arabic Discretization, and Text to Speech.
- Implemented responsive and scalable web applications using React and TypeScript, increasing development speed by 30% as the sole front-end developer.
- Led front-end integration of AI-driven tools (speech recognition, text processing), boosting user engagement by 40% and accessibility by 50%.
- Optimized performance, reducing loading times by 35% and enhancing customer satisfaction by 25%.
- Enhanced accessibility features, improving usability for users with disabilities by 60%.
- Developed and maintained advanced web applications for contact centers, improving customer service efficiency and accuracy by 45%.
- Collaborated with back-end developers for seamless API integration, reducing issues by 20% and ensuring smooth data flow between systems.
- Contributed to solutions in Natural Language Processing (NLP) and Optical Character Recognition (OCR) domains, enhancing customer interactions and support through AI-driven applications and chatbots.

Frontend Developer <div align="right">July 2021- Present</div>

Freelance <div align="right">*Remote*</div>

- Developed complete websites using React and Vue for various client projects.
- Created Jobrex, an AI job platform using React, Bootstrap, React Query, Zustand and resume building.
- Developed an interactive calendar for The National Palm and Date Centre (NCPD) using Vue 3, Tailwind CSS, Pinia, and PrimeVue, with backend integration.
- Improved the Tas Admin Dashboard for a SaaS solution using Vue 2, Bootstrap-Vue, and Vuexy.
- Built the Giftit website with Vue 3, Vuetify, and Pinia, ensuring smooth API integration.

Software Engineer Intern (Certificate) <div align="right">Mar 2023- Sep 2023</div>

Manara <div align="right">*Remote, USA*</div>

- Exhibited strong communication skills and a teamwork-oriented approach in over 15 technical and behavioral interviews, receiving commendations from interviewers and securing several job offers.
- Participated in an intensive 7-month program, concentrating on problem-solving and technical skills.

Software Engineer Intern (Certificate) <div align="right">Aug 2022- Nov 2022</div>

Et3 - Tomorrow Information Technology <div align="right">*Egypt*</div>

- ET3, an Egyptian enterprise, offers quality, cost-effective IT solutions for complex challenges.
- Contributed to the administration system using Django for a market company called Adhoc, optimizing the UI for the admin panel and improving file import and export processes for enhanced efficiency.
- Created a dashboard for the Egyptian National Railway as part of a frontend project; utilized the D3.js data visualization library and developed advanced chart features and improved usability

Projects

CSX | Contact Center Analytics
- Developed a web system for customer service departments to analyze recorded customer calls. The system enhances call analytics, providing insights to improve customer interactions.
- Technologies: React, React Query, React Table, Shadcn UI, Tailwind CSS, React Hook Form, Zod, Recharts, Vitest, React Testing Library, JSDOM, MSW

Sotoor
- Designed OCR software that converts scanned documents (including Arabic, English, and other languages) into editable, searchable files. The software maintains the original layout of the documents, ensuring accuracy and ease of use for digitizing physical records.
- Technologies: React, React Query, Shadcn UI, Tailwind CSS, React Hook Form, Zod, jsPDF

Tashkeel
- Engineered text processing technology for precise automatic diacritization of Arabic text. Facilitates improved readability and correct pronunciation for users, especially in educational and professional settings.
- Technologies: React, React Query, Styled-components, Jest, React Testing Library, JSDOM, MSW

Kateb
- Developed a comprehensive speech-to-text application with both website and portal versions. The application processes audio and video files to provide accurate transcriptions.
    - **Website Version**: Implemented using modern web technologies to ensure a seamless user experience for transcription services.
    - **Portal Version**:Real-time recording with customizable stereo/mono mic control for high-quality audio.
    - Technologies: React, Typescript, React Query, Shadcn UI, Tailwind CSS, React Hook Form, Zod, Vitest, React Testing Library, JSDOM, MSW

Natiq
- Created text-to-speech technology that converts Arabic text into natural-sounding speech. This technology enhances accessibility and user experience, particularly for visually impaired users and educational applications.
- Technologies: React, React Query, Styled-components, Jest, React Testing Library, JSDOM, MSW

Chatbot
- Developed a sophisticated conversational chatbot capable of providing voice and text responses for various applications, including Daleel for _NIDLP_, Hajeh, prayer and Linguistics Alternatives.
- Technologies: Typescript, React, React Query, Shadcn UI, Tailwind CSS, WebSocket

Technical Skills

Languages: HTML, CSS, JavaScript (ES6+), TypeScript, Python.
Libraries & Frameworks: React,Vue, jQuery, Firebase, Bootstrap, Tailwind CSS, State Management (React Query, Zustand, Redux, and Pinia), Shadcn UI , Ant Design, PrimeVue and Vuetify 3.
Testing: Vitest, Jest, JSDOM, React Testing Library, Cypress and MSW
Operating Systems: Linux, Windows.
Tools: Visual Studio Code, Git, Github and Gitlab.
Familiar: Flask, Django, Node.js.

Education

Beni-Suef University B.S. in Computer Science   Sep 2019 - July 2023