Mohamed Ahmed Raafat

Full Stack Web Developer

mohamedraafat060@gmail.com | +201125731861 | LinkedIn | Github | Cairo, Egypt

PROFESSIONAL SUMMARY

Passionate about making technology more accessible and impactful, I build AI-powered solutions that transform how people work and interact. My work combines technical expertise with a deep understanding of how AI can solve real-world challenges and create meaningful change.

EDUCATION

B.S. Computers and Systems, Faculty of Engineering, *Ain Shams University*   June 2022

PROFESSIONAL EXPERIENCE

HireHeroAI | Full Stack Developer | USA   Feb 2024 - Present

An AI resume building application:

- Developed & Launched HireHero's AI-powered resume enhancement application from concept to production as the sole engineer, designing a scalable and modular tech stack using Next.js, PostgreSQL, AWS S3, and Stripe, collaborating closely with the client to define and implement project requirements.
- Architected and implemented a full-stack Langgraph-based AI interview system with real-time streaming capabilities, enabling personalized resume coaching through dynamic supervisor architecture and natural language processing
- Engineered a robust resume parsing system using multiple LLMs (GPT-4o-mini, Claude-Sonnet-3.5) to extract and structure data from diverse resume formats, improving processing accuracy and efficiency.
- Implemented an intelligent resume scoring and improvement feature utilizing advanced AI models, enhancing the platform's value proposition for job seekers
- Developed an intuitive document editing interface by implementing custom TipTap nodes, transforming rigid form inputs into a dynamic full-document editor with real-time validation and formatting capabilities
- Optimized website performance and user experience through data-driven improvements, resulting in a 35% increase in homepage user retention.

Yalla Kafala | Full Stack Developer | Egypt   Aug 2023 – Present

A charity aiming to find a home for all orphans in Egypt:

- Spearheaded migration from Webflow to Next.js, improving website performance by over 50% through implementation of server-side rendering (SSR) and static site generation (SSG).
- Engineered and deployed an AI-powered chatbot utilizing Vercel AI SDK and PostgreSQL-based RAG system, integrating WhatsApp API for 24/7 customer support, reducing response times from 30+ minutes to seconds while handling after-hours inquiries through automated FAQ retrieval.
- Implemented innovative solution using Google Sheets as a database, enabling non-technical staff to easily update website content while maintaining data integrity.

- Developed real-time Facebook API integration to automate website content updates, transforming static content management into dynamic feed system for improved user experience.

Kelma AI | Full Stack Developer | USA   Aug 2023 – July 2024
A startup aiming to facilitate AI access to the Arab world:
- Engineered a robust Personal AI Assistant with advanced hallucination prevention, implementing a RAG system and innovative judge LLM to ensure accuracy of information in critical applications
- Developed a secure multi-tenant system for document analysis application, enabling multiple organizations to use the platform while maintaining strict data isolation and privacy
- Optimized AI model performance by fine-tuning LLM parameters and implementing a dual-LLM verification process, significantly reducing false information in user responses
- Created a scalable document analysis solution using Langchain and Pinecone DB, efficiently handling documents up to 20 pages while ensuring accurate information retrieval
- Designed and implemented full-stack features integrating Next.js frontend with PostgreSQL and Redis backends, focusing on performance optimization and secure data handling across the application stack

Palm Beat Studio | Flutter Developer | Egypt   Nov 2022 - May 2023
An entertainment app that streams music, offers vouchers to users, and maintains a directory of events happening in Sheikh Zayed:
- Developed and deployed a cross-platform radio app using Flutter and Firebase in just two weeks, significantly reducing development time and costs for a client with budget constraints
- Implemented efficient music streaming functionality, overcoming technical challenges to ensure smooth performance and enhance user experience
- Successfully navigated App Store regulations, finding a solution to publish the app while complying with music licensing requirements
- Managed client expectations through weekly progress meetings, delivering a workable product every week and incorporating feedback for continuous improvement
- Utilized Firebase as a cost-effective backend solution, optimizing app performance within limited resources while meeting project requirements

TECHNICAL SKILLS

- **Languages and Databases**: Javascript, Typescript, HTML5, CSS, PostgreSQL, Redis, MongoDB.
- **Libraries and Frameworks**: React, Next.js, LangChain, LangGraph, LangSmith OpenAI API, Anthropic, Gemini, Flutter, Node.js, Express, Tailwind CSS, Material UI, Redux, Zod, Prisma, TRPC
- **Skills**: LLMs, AI-driven applications, RAGs, Frontend development, Backend development, SEO Optimization, REST API, GraphQL, AI Agents, E2E Testing.
- **Additional Technologies**: Pinecone DB, GCP, AWS S3, Vercel, Stripe, Facebook API, WhatsApp API, Figma.