

Medhat Albsugy

Staff Software Engineer - Front-End | AI/ML Integrations

albsugy@gmail.com | <https://www.linkedin.com/in/albsugy>

<https://www.albsugy.com> | <https://github.com/albsugy>

Abu Dhabi, United Arab Emirates | +971 5856 31318

Front-End Engineering Lead bridging Design, Product, Security & Architecture with over a decade of experience delivering scalable, secure, and high-performance applications. Skilled in frontend architecture, AI/ML integrations, leadership, and optimizing developer experience. Proven track record of driving product innovation, mentoring cross-functional teams, and delivering intuitive user experiences using modern JavaScript frameworks and best practices, across diverse environments, including fast-paced startups, high-growth scale-ups, and established global enterprises.

Education

Projects

Elevate AI - Gemini API Developer Competition | Google AI for Developers

Jun 2024

Career development platform, The application acts as a personal career co-pilot to provide actionable insights for professional growth, involved designing and building a reactive application from the ground up, with a core focus seamless AI integration.

Work Experience

Staff Front-End Engineer – AI Products

Dec 2024 - Present

cMatter.com | Abu Dhabi, United Arab Emirates

Driving product innovation at cMatter, a cutting-edge AI & Advanced ML platform for building energy management, from idea to launch. Leading cross-functional initiatives to shape product direction, design experience, and deliver impactful solutions and prototypes that move the needle.

- Lead product research and user experience strategy across the entire product lifecycle.
- Design and develop Front-End architectures and scalable user interfaces.
- Collaborate directly with executive leader, and drive rapid prototyping and innovation using AI-powered tools and modern frameworks
- Set product design and user experience direction through user research, design thinking, and strategic vision alignment
- Mentor development teams on best practices in design systems and engineering.
- Transform user insights and market research into actionable product features and technical solutions.

Tech Lead | Staff Front-End Engineer

Jan 2024 - Nov 2024

[baraka \(YC S21\)](#) | Dubai, United Arab Emirates

Leading the development of Baraka's trading platform, driving the creation of user experiences. Leveraging deep expertise in React to design high-performance, secure, and user-friendly interfaces. Driving collaboration with cross-functional teams to shape our investment application.

- Led the frontend architecture for Baraka's trading platform, enabling a 99.9% uptime SLA.
- Integrated Baraka API with React Query and WebSockets for real-time updates, improving data freshness by 80%.
- Implemented automated end-to-end tests with Playwright, cutting manual QA cycles by 65%.

Senior Front-End Engineer

Jan 2022 - Dec 2023

[Copper.co](#) | London, United Kingdom

Build, integrate, and maintain Copper platforms for Blockchain and Digital Assets. Responsible for application development guidance, application performance.

- Optimized blockchain dashboard and Risk Management in React and TypeScript, increasing rendering speed by 44%
- Partnered with backend and DevOps teams to containerize frontend services in Docker and GoCD.

Senior Front-End Engineer

May 2021 - May 2022

[Cognizant](#) | London, United Kingdom

Developing highly secured and robust web applications, and working as a mentor in an agile team to ensure the expected deliverables are met with high quality

- Collaborated with UX team to enhance accessibility (WCAG) across 12 key flows, boosting user satisfaction by 27%.
- Advocated CI/CD best practices using GitHub Actions, resulting in 100% test coverage on critical modules.

Senior Front-End Engineer

Jun 2019 - Apr 2021

[Publicis Sapient](#) | London, United Kingdom

Engineered digital experiences, work with stakeholders, internal and client teams to deliver solutions across retail, financial services, energy, and automotive.

- Delivered large-scale React/Redux applications for retail and fintech clients, handling \$100M+ in transactions per month
- Streamlined build pipelines with Webpack and Rollup, cutting bundle size by 35%.
- Led code reviews and established TDD practices, increasing code quality and reducing bug backlog.

Senior Front-End Developer

Jan 2018 - May 2019

[OMNIA](#) | Dubai, United Arab Emirates

Brought onboard to close the gap between the UI design and development teams, help communicate effectively to solve day-to-day problems, ensuring designs are correctly interpreted, features are understood to avoid compromises, making sure that the end product meets the user experience and requirements.

- Bridged design and development teams to deliver pixel-perfect React UIs ahead of schedule
- Optimized critical user flows via lazy loading and code splitting, improving Core Web Vitals

Senior Front-End Developer & UI Designer

May 2017 - Dec 2017

[Lucidya](#) | Riyadh, Saudi Arabia

Implementing web design and development principles to build stable software, bringing mock-ups to life using HTML, CSS, JavaScript, ReactJS. Collaborating closely with the team to support projects during all phases of delivery.

Develop digital products, secure web application for startups, and create user-friendly websites and WordPress themes, conduct market research. Responsible for application architecture, and UI implementation.

Languages

English, Arabic

Core Skills

Programming Languages: TypeScript, JavaScript (ES6+)

Frameworks and Libraries: React, Next.js, Redux, TanStack React Query, Zustand, Vite, TailwindCSS, Rollup.js, Storybook, LangGraph, LlamaIndex, AI SDK

Tools and Technologies: Docker, AWS (S3, CloudFront), GitHub Actions, Swagger, JSON, OpenAPI, IndexedDB, Caching Strategies, Lighthouse, Vercel, Netlify, Chrome DevTools, CI/CD, CircleCI, Jenkins, GoCD, Git, Vector Databases (Pinecone - Weaviate - Qdrant), AI/ML Integration, Retrieval-Augmented Generation (RAG), Gen AI Integration, Version Control Systems

Development Practices: Performance Optimization, Monorepos (Nx, Turborepo), Micro Frontends, SSR/ISR, Static Code Analysis, Accessibility (WCAG), Core Web Vitals, Bundle Analysis, OWASP Security, JWT Auth, OAuth2, Token-based Theming, Lazy Loading, Code Splitting

Testing and Quality Assurance: Vitest & Jest, Playwright, Unit Testing, E2E Testing, Test Driven Development (TDD)

Additional

- LangChain for JavaScript Developers Course
- Google Web.dev – Advanced Performance Optimization Course
- DeepLearning.AI – Generative AI with LLMs Course
- OWASP Secure Coding Practices
- Frontend Masters – Scalable Frontend Architecture Course
- Secure JavaScript Applications (Frontend Masters)
- Design Systems with Figma & React (Design+Code)
- AWS Certified Solutions Architect – Associate