

Mustafa Alkaysi

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PROFESSIONAL SUMMARY

Senior front-end and full stack engineer with 10+ years of experience at Deloitte. Experienced in leading cross-functional teams to deliver large-scale web-apps through development, architecture, and product management.

WORK EXPERIENCE

Deloitte LLP | Remote

Principal Software Engineer | Liberty Mutual – Web App Marketing Portal | July 2025 – Present

- Leading an 8-person development team to kickoff a greenfield web application portal that will deliver marketing insights to a global customer base.
- Facilitating requirements and MVP discussions with business and technical stakeholders to identify key features, challenges, and integrations required as part of the release timeline.
- Driving engineering and architecture discussions to plan design and development of a scalable product across public and private users through integration of an Angular, AWS, Node.js, PowerBI, and PostgreSQL tech stack.

Tech Lead | IRS – Taxpayer Experience Portal | November 2023 – July 2025

- Led a 10-person development team that delivered features for the IRS's Taxpayer Experience Portal, including its first online form submission, enabling 40M+ taxpayers to access data and file forms online, generating 2M+ page views from 1.3M users within three months.
- Architected Spring Boot microservices and data integrations reused across IRS apps, and designed a strictly typed React/TypeScript front-end with a reusable component library that ensures reliable API contracts.
- Wrote core UI code, optimized state management, and guided back-end implementation through design docs and pull request reviews.
- Integrated the React front-end into Spring Boot back-end microservices with external and cross-environment APIs.
- Coordinated with product, testing, DevOps, and external technical teams to identify and prioritize features that improve the user experience.
- Led peer coding sessions and code reviews, implemented Jest unit testing, and mentored junior developers on front-end development and testing practices.

Senior Front-End Software Engineer | Deloitte – Internal Software Portal | August 2022 – November 2023

- Developed React (v16.8) and TypeScript features for the Deloitte Internal Software Portal, an AI/ML-tool catalog used by teams across the firm's federal practice.
- Implemented interactive product engagement features, to view, save, and like for employees to curate preferred tools and identify popular resources.
- Created a reusable component library with Tailwind CSS and Material UI for responsive and accessible pages across devices.
- Set up an end-to-end CI/CD pipeline via GitHub Actions with integrated Storybook and Cypress for component level testing and validation.

Product Manager | Federal Railroad Admin. – Positive Train Control Portal | January 2022 – August 2022

- Led development of the Federal Railroad Administration's Positive Train Control Portal, partnering with product owners to define safety data use cases for rail operator analytics and incident reporting.
- Built a React prototype with Salesforce integration that enables long-term analysis and simpler digital data submission.

Cloud Senior Tech Strategist | Dept. of Transportation – Cloud Strategy | June 2021 – January 2022

- Assessed the Department of Transportation's legacy IT landscape and charted a hybrid cloud roadmap.
- Coordinated with SMEs, engineers, and product teams to design a hybrid, Azure, AWS, on-premise architecture that supports the modernization plan.

Front-End Software Engineer | USDA – ReConnect Grants Management Portal | September 2019 – June 2021

- Developed JavaScript and Salesforce front-end components for the USDA ReConnect Grants Management Portal that has processed more than \$476 million in rural broadband grants and loans.
- Built the portal's first online data submission workflow with built-in compliance validation, replacing manual forms.
- Improved usability and accessibility by updating JavaScript components and responsive layouts.
- Defined Git branching conventions and set up CI/CD pipelines for deployments across multiple environments.

ADDITIONAL EXPERIENCE AT DELOITTE LLP

Tech Strategist | Gov. of Puerto Rico Treasury – IT Transformation | September 2017 – September 2019
Technology Analyst | IRS – Legacy System Modernization | February 2015 – September 2017

PROJECTS

[Wealth Map](#) | December 2022 – Present

Tech Stack: Tailwind UI, NextAuth.js, Express.js, MongoDB, Postman, GitHub Actions, and Playwright

- Developed and launched a full-stack financial planning web app that calculates financial management paths from a user's income, debt, and assets, leveraging Next.js UI and auth flow to the MongoDB data layer, backend services, CI/CD, and automated tests.

Life In Color | May 2025 – June 2025

Tech Stack: React Native, Expo, Node.js (Express), OpenAI API

- Developed a mobile app where users take a photo and receive an AI-generated transformed image through OpenAI API integration without requiring a manual prompt.

[REI Copilot](#) | July 2021 – December 2022

Tech Stack: React, Node.js (Express), Tailwind UI, Cypress, MongoDB, MaterialUI

- Developed and launched a full-stack real estate management web app that provides users with the ability to manage tasks, income, expenses, search for properties, and upload documents within a React and Node.js web application.

CERTIFICATIONS

AWS Certified Cloud Practitioner | Certified ScrumMaster (CSM) | SAFe Agilist | Salesforce Certified Administrator | Salesforce Certified CPQ Specialist

AWARDS

Deloitte Client Civil Sector Award | 2022

SKILLS

Front-End: React.js | Next.js | TypeScript | Vite | Redux | Angular | Tailwind UI | Material UI | React Query | ES6

Back-End & Data: Node.js | Express.js | MongoDB | Mongoose | Axios | JWT | OAuth | Java Spring Boot

DevOps & Tooling: AWS | Git | GitHub | GitHub Actions | GitLab | Bitbucket | Storybook | Cypress | Playwright | Postman | Jira | Jest | Docker

EDUCATION

Bachelor of Science, Mechanical Engineering | Temple University | Philadelphia, PA | 2014