



About

I'm a contract Software Engineer specialising in Javascript and NodeJS with expertise in user-centered design, visual design, interaction design, information architecture, accessibility and web standards.

I have over eighteen years experience in both website design and software development. I am a data driven designer and developer, shaping user experiences based on research and analysis of quantitative and qualitative data. I combine this analytical approach with UI prototyping and UX experience to create visually engaging and highly usable products to industry accessibility standards.

Achievements

- Worked on an international platform delivering value across 24 countries for a multi-billion pound retail company.
- Integrated internal systems with ReactJS and MaterialUI for a FTSE250 company with over £150M in order throughput each month.
- Designed and implemented a public-facing design system adopted by 40 teams internally across USA, Canada and the UK.
- Worked across five blue chip organisations on migrations or greenfield React projects.
- Integrated CI/CD pipelines with Terraform in AWS on server-less technology for fulfilment chains in a large retail project with resilience to cope with bursts of ~12,500 orders a second.
- Worked as a technical lead and architect, up-skilling six teams to deliver an eight figure software project for a household name.
- Reduced build and test times for a medium-scale startup from over 3 minutes to just 7 seconds, saving around 2 hours of engineering time per week.

Experience

Zapp August 2025 – Present Day
Contract Full-Stack Technical Lead



Led the integration of a company-wide design system built with React and modern tooling including Storybook, Vite, Vitest, Chromatic, Tailwind, and ShadCN UI. This included integrating internal analytics to track adoption and component usage, implementing a logging framework to monitor third-party usage and proactively resolve issues, and extending the system to better support AI-driven tooling. I also provided ongoing UI feedback and guidance across all internal applications to ensure consistency and quality.

Migrated the support platform from Next.js to Vite, simplifying the build process and enabling static deployments on cloud storage, resulting in cost savings for the business. I implemented and standardised CI/CD pipelines using GitHub Actions and CircleCI across multiple products, improving visibility and developer efficiency. Additionally, I introduced semantic-release to automate semver-based artifact deployments, saving approximately 25 minutes of engineering time per build.

Monzo Bank February 2025 - August 2025
Contract Full-Stack Technical Lead



Worked across multiple Monzo product verticals using a broad frontend and backend stack including TypeScript, Flow, Next.js, React, Go, CSS Modules, Storybook, and Contentful CMS, directly contributing to improved conversion rates supporting around 170,000 new customer acquisitions per month. My work balanced performance, SEO, and scalability to ensure a high-quality experience across marketing and product surfaces.

Led the MarTech function across all squads, establishing stronger ways of working between marketing and engineering and enabling faster, data-driven delivery. This included collaborating closely with third-party platforms such as TikTok, Google, Facebook, Rokt, and Adjust to shape integrations and provide technical input on new products. I also supported internationalisation efforts, helping unlock faster market expansion while maintaining SEO standards for over 430,000 monthly organic users, and laid the groundwork for future AI-driven tooling focused on analytics, attribution, consent, churn reduction, and time-to-market.

Kanexa September 2023 - January 2025
Contract Full-Stack Technical Lead



Led the front-end engineering of a customer-facing finance management SaaS platform used by enterprise clients including Bank of America, BNY Mellon, Fruit of the Loom, MSC, and BJ's. Through a focus on consistent UX and rapid feature delivery, this work directly improved client retention. I planned, architected, and governed a centralised, configuration-driven component library used across multiple products, increasing consistency and reducing time-to-market by approximately 90%.

In parallel, I built and maintained robust delivery and infrastructure foundations, including CI/CD pipelines with GitHub Actions and Azure DevOps, semantic-release-driven automated deployments (saving around 75 engineering hours per year), and Dockerised services deployed to Kubernetes clusters. I worked closely with product, design, and leadership to provide clear communication on progress, risks, and recommendations, fostering stronger cross-team collaboration. I also partnered directly with Bank of America and external accessibility testing agencies to ensure compliance for deployment within the BOA ecosystem, implementing comprehensive end-to-end automation covering performance, security, visual regression, and accessibility to reduce regression risk and significantly streamline annual compliance re-certification.

Redkite October 2021 - September 2023
Contract Full-Stack Technical Lead



Led front-end engineering for a data observability platform used by internal analysts and external enterprise clients to monitor and validate real-time data pipelines. The platform was built with TypeScript, React, GraphQL (Apollo), WebSockets, and Storybook, with a strong focus on performance, reliability, and real-time visibility into data health.

Designed and delivered a CMS-driven configuration layer using Strapi, enabling non-technical users to manage data model rules and monitoring thresholds, significantly reducing day-to-day reliance on engineering. I also architected a high-performance real-time GraphQL WebSocket layer with Apollo to surface pipeline failures instantly, shortening issue detection times. Additionally, I consolidated multiple repositories into a single, maintainable Turborepo-based monorepo, improving consistency and reducing overhead when shipping changes. Build tooling and CI/CD pipelines were optimised using esbuild and Azure DevOps, cutting production build times from 16 minutes to 45 seconds while improving deployment reliability.



Experience Cont.

Debut Careers March 2021 - October 2021

Contract Full-Stack Technical Lead



Delivered a machine learning-powered feature that helped students match with graduate roles faster and more accurately, directly improving application-to-placement conversion rates for Debut's core B2B employer partners. To support this, I architected and built a resilient serverless stack in Azure using Dockerised services to meet new API and frontend requirements.

Managed and evolved data flows across multiple SQL and NoSQL data stores to power real-time scoring, ranking, and recommendation features. This ensured strong performance under peak traffic while maintaining data consistency and reliability across the platform.

ModelDrive November 2020 - March 2021

Contract Full-Stack Technical Lead



Built enterprise-grade spreadsheet collaboration software for investment firms, including BlackRock, using React, GraphQL (Apollo), WebSockets, Styled Components, and Storybook, enabling real-time collaboration on complex financial data. Migrated the frontend to a centralised, component-based architecture, improving development speed and long-term maintainability. Provided architectural guidance across databases, backend services, and real-time connections to optimise performance and scalability, ensuring low-latency interaction with large datasets even under heavy concurrent usage.

Just Eat January 2020 - November 2020

Contract Full-Stack Technical Lead



Delivered customer-facing features across Just Eat's core verticals—Home, Orders, Restaurants, and Offers—using VueJS, Vuex, .NET, and Webpack 4, impacting 94M+ active users across web and mobile. Improved developer velocity and UI consistency by contributing to Just Eat's open-source library with Lerna and Storybook. Guided teams on modern ES6/ES7 and component-based Vue practices, reducing delivery risks and accelerating project timelines. Partnered with directors and stakeholders to align expectations, and collaborated with QA to refine E2E, unit, and component testing, increasing release confidence and reducing regressions.

Boots August 2019 - January 2020

Contract Full-Stack Technical Lead



Led five cross-functional teams to deliver an industry-first online pharmaceutical ordering journey, enabling customers to complete prescription purchases fully online. The solution launched on time and within budget, driving higher customer engagement and increased digital order volume across 8.1M active users. Delivered a greenfield eCommerce platform using server-side rendered React, Redux, Node, and Styled Components, significantly improving performance, SEO, and conversion rates.

Built and maintained NodeJS microservices with Express, and developed plans to move toward a middleware strategy to enhance reusability and centralisation. Initiated a successful PoC introducing GraphQL with PostgreSQL, streamlining microservice integration and simplifying frontend data consumption for future product teams. Worked closely with directors and stakeholders to align expectations and provide regular progress updates across all teams.

Dunelm July 2018 - August 2019

Contract Full-Stack Technical Lead



Re-architected and re-platformed www.dunelm.com using Lerna, React (with server-side rendering), Redux, Node, Express, and Emotion (ES6/ES7, Babel, Webpack), contributing to a 1.6% increase in Dunelm's share price on release. Designed and built back-office systems on AWS with CloudFormation, Lambda, SNS, SQS, and API Gateway using NodeJS and Koa in TypeScript, ensuring scalability for peak order volumes of ~10,000 per minute.

Advised on and implemented GraphQL adoption via AppSync and Apollo Client, streamlining frontend data access and reducing backend integration complexity. Established modern testing practices using Jest and React Testing Library, integrating full-stack automation with TestCafe and BrowserStack to improve release reliability and reduce defects. Integrated CI/CD pipelines using Jenkins and Docker in ECS, further accelerating deployment and improving operational efficiency.

Experian September 2016 - July 2018

Contract Full-Stack Javascript Developer



Re-platformed key customer-facing products—including experian.com, experian.co.uk, CreditMatcher, and CreditExpert—across four greenfield builds using React, NextJS, Node, and Styled Components. Delivered responsive, high-performance UIs for over 51M UK users, improving load times, accessibility, and overall engagement.

Designed and maintained an internal React component library in Storybook, increasing UI consistency and accelerating frontend delivery across teams. Built robust unit and integration test frameworks with Mocha, Enzyme, Fetchmock, and SinonJS, and enhanced visual QA with Nightwatch and BackstopJS, reducing defects and shifting testing left. Supported Agile transformation initiatives by introducing improved delivery cadence, estimation practices, and inter-team communication strategies.

Capital One January 2015 - September 2016

Contract Full-Stack Javascript Developer



Delivered a greenfield digital account servicing platform using NodeJS, GraphQL, Angular, and RESTful microservices, enabling millions of UK and US customers to manage accounts online securely and efficiently. Built "OneUI", a centralised internal component library adopted by 50+ engineering teams across the UK, US, and Canada, significantly improving design consistency, development speed, and maintainability.

Collaborated closely with services teams to design and implement RESTful APIs, and led internal knowledge-sharing sessions to upskill teams on modern JavaScript practices and adoption of shared components and tools.