

Michael Mammoliti - Senior Full Stack Engineer

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About Me

Hi, my name is Michael and I have over 15 years of experience collaborating with companies of different sizes and fields. The projects I've worked on have varied in scale and complexity, ranging from landing pages to immersive experiences, enterprise-grade solutions and real-time full stack applications.

I am an active contributor in integrating, maintaining, testing and releasing whole projects from start to finish, establishing requirements, prototyping and designing UI/UX, optimising performance, preventing security vulnerabilities and ensuring high SEO and WCAG scores.

I keep expanding my knowledge by working on side projects, where I use new languages and frameworks, ship on native environments and integrate AI models.

Tech

- Front End: HTML5, SASS, ES7, Typescript, React, Svelte, Astro, Next.js, Vite, Webpack, Storybook.
- Back End: Node, Express, Hono, Firestore, MongoDB, PostgreSQL.
- Native: React Native, Capacitor, Electron.
- Tracking: Google Tag Manager, Google Analytics, Omniture, Optimizely, Cloudwatch.
- Testing: Unit Tests, End to End, Visual Regression, React Testing Library, Jest, Cucumber, A/B, Cypress, Puppeteer.
- DX Tools: ESLint, Prettier.
- CI/CD: Jenkins, CircleCI, Concourse CI.
- Cloud: GCP, AWS, Firebase, Supabase.
- Others: Adobe Suite, Figma, Jira, Asana.

Experience

Design Technologist @ Amazon (Brand Innovation Lab)

10/2023 - Present

- Led the end to end creation of custom experiences targeting major platforms including Web, Fire TV and Alexa;
- Created Augmented Reality and 3D experiences using Three.js, React Three Fiber, AR.js, MindAR and MediaPipe;
- Developed Chrome extensions and tools that integrate with local GenAI LLMs to automate processes, increase productivity and reduce management using Svelte and Node.js;
- Built components, video streaming and tracking solutions to be reused across Amazon Brand Stores using React, Typescript, Cloudwatch, Lambda, S3 and Cloudfront;
- Improved accessibility score across components and live pages to comply with EU regulations;
- Cross-functional collaboration and tech support between Designers, Engineers and Solution Managers;
- Established, reviewed and defined new requirements to overcome technical/UI challenges;
- Showcased fully working prototypes and provided real time support to stakeholders.

Lead Full Stack Engineer - Freelance

05/2023 - 09/2023

- Owned the development lifecycle: design, management, defining requirements, owning releases, monitoring/debugging and mentoring.
- Built a real-time, multiplayer card game featuring a matchmaking system and a CPU/offline opponent;
- Automated game data generation to power future machine learning models and AI bots;

Senior Front End Engineer @ BOXARR

01/2023 - 05/2023

- Led the development of a Canvas based application that managed vector geometries, spatial positioning, and complex layer hierarchies with integrated metadata support;
- Led the development of a dashboard system with customisable widgets to manipulate complex data sets;
- Conducted technical interviews, collaborated across departments and presented new features to stakeholders.

Senior Full Stack Engineer @ ZAPP**10/2021 - 01/2022**

- Developed a real-time logistics and supply chain app with stock management and automated ordering systems;
- Rebuilt the core architecture, designed a new database strategy, moved critical logic to a secure and transaction-based backend for data integrity;
- Conducted on-site testing and ensured the app performed reliably in a fast-paced warehouse environments;
- Optimised system performance and comprehensive refactor: from 0 to 95% test coverage, lowered cloud infrastructure bill by 85%.

Senior Front End Engineer @ Barclays**04/2021 - 09/2021**

- Developed independent, modular and complex form journeys for business customers;
- Ensured test coverage remained at 100%, full accessibility compliance and old browser compatibility (IE11).

Lead Full Stack Engineer - Freelance**02/2020 - 10/2020**

- Led design, management and development of 3 applications, from prototype to release;
- Mentored aspiring developers on modern engineering workflows which successfully led to them securing professional roles in the industry in under 6 months.

Senior Front End Engineer @ Sky (NOW TV)**08/2019 - 02/2020**

- Worked on the payment/checkout department integrating third-party payment providers;
- Built a themeable SCSS architecture to maintain a consistent look and feel across four brand identities;
- Ensured flawless user experience with strong unit, integration, visual regression and A/B testing scenarios;
- Monitored application health, fixed release pipelines and generated reports on user tracking.

Senior Front End Engineer @ EPAM (B&Q)**02/2019 - 04/2019**

- Expanded the component library to be reused across the platform;
- Ensured a smooth experience on data-rich pages by managing complex state.

Senior Front End Engineer @ OpenBet**07/2018 - 12/2018**

- Restyled the real-time sports platform and ensured brand consistency across the app.

Senior Front End Engineer @ Lifeworks**09/2017 - 06/2018**

- Managed complex state and localisation for a worldwide Wellness platform and its management control panel;
- Ensured full compliance with strict local requirements;
- Collaborated with backend teams on architectural strategies for high-level scalability and reliability.

Front End Engineer @ SYZGY (Mazda)**12/2016 - 09/2017**

- Developed data-driven components to integrate on a CMS for rapid customisation of pages across EU markets;
- Rebuilt from scratch the Dealer Locator journey using Bing Maps and a custom calendar for reservations;
- Improved system performance by reviewing data flows and refactoring legacy core dependencies.

Front End Engineer @ Havas Helia**05/2016 - 12/2016**

- Developed an interactive stock management dashboard that allowed users to track/manage faulty products;
- Released innovative, high-performance, animation-rich and cross-platform digital advertisements for global brands;
- Maintained strict brand integrity and graphic guidelines across projects.

Full Stack Engineer - Freelance**01/2010 - 05/2016**

- Designed and presented new concepts to stakeholders that were released into live and pixel perfect full stack experiences.