# Mark Loughlin

## | Senior Frontend / Mobile Engineer

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## Summary

With 11 years of experience in Senior Frontend and Mobile Engineering across Healthcare, Fintech, and Media sectors, I specialize in developing mobile/web applications tailored to diverse client needs. Equipped with strong communication and analytical skills, I excel in translating business requirements into effective software solutions. I am committed to project timeliness and collaboration, I thrive as a team player. Proficient in code review and optimization, I focus on enhancing software quality to ensure seamless functionality. My bachelor's degree in computer science underpins my expertise in crafting sophisticated mobility applications for Android, iOS, and web platforms, enabling me to deliver scalable and efficient solutions that drive user engagement.

## Experience

### SENIOR FRONTEND DEVELOPER | IDEXX, US | SEP 2023 – PRESENT

- Spearheaded the development of a Hospital Management System, leveraging **React/Typescript** for web application and integrating **React Native** for mobile platforms.
- Contributed to the implementation of real-time analytics dashboards, employing **WebSocket** and **SignalR** technologies alongside **D3.js** for data visualization and **React Hooks** for improved code maintainability. This initiative provided healthcare professionals with actionable insights into patient data and treatment outcomes, resulting in a 15% enhancement in data-driven decision-making processes.
- Implemented frontend components and user interfaces using **React Native**, ensuring a seamless and intuitive user experience across various devices and screen sizes. Demonstrated proficiency in **iOS** and **Android** platforms to maintain consistency.
- Enhanced UI components management by 26% through the implementation of a **storybook** for web applications, while also introducing reusable components in React Native for mobile platforms.
- Augmented client base by 29% through the integration of **i18n** into flagship web and mobile applications, thereby improving accessibility and usability for global users.
- Optimized application navigation flow by implementing dynamic routing using **React Router** for the web and **React Navigation** for mobile. Achieved a 25% reduction in page loading time across both platforms.

### SENIOR FRONTEND DEVELOPER | (NIMDTA) NORTHERN IRELAND MEDICAL & DENTAL TRAINING AGENCY, DUBLIN | SEP 2021 – SEP2023

- Conducted end-to-end testing automation using **Cypress** and **Jest** tools for both web and mobile applications, resulting in heightened software quality and accelerated time-to-market.
- Oversaw app distribution, beta testing, and performance monitoring via **Google Play Console** for Android apps and utilized **TestFlight** for iOS app beta testing. Ensured smooth deployment processes and gathered valuable user feedback.
- Conducted application debugging across various browsers using **Jasmine** and **Mocha** for web, and **React Native debugging tools** for mobile platforms.

- Integrated Jest unit tests into the continuous integration (**CI**) pipeline, automating the testing process and facilitating early detection of code issues for web and mobile applications.
- Ensured proper data handling through **REST API** for receiving and posting data to the database across both web and mobile platforms.
- Successfully submitted developed mobile applications to **Google Play Store** and **Apple App Store Connect**, adhering to respective guidelines and ensuring seamless approval processes, including in-app-purchase flow.
- Utilized **Jira** for project management, task tracking, and collaboration within agile teams, including UX/UI designers and backend engineers. Ensured efficient workflow management and timely milestone delivery.
- Incorporated **Slack** and **MS Teams** for team communication and collaboration, enabling real-time discussions, file sharing, and integration with other tools to streamline project coordination and enhance team productivity.

## MOBILE APPLICATION DEVELOPER | IWP CAPITAL, TEXAS | AUG 2019 – JUL 2021

- Spearheaded the development of a mobile fintech application specifically designed for ethical investors, facilitating the screening of stocks and ETFs based on personal values. Leveraged **Flutter** technology to deliver a seamless user experience across both **iOS** and **Android** platforms.
- Contributed to the creation of an investment advisor web application using **Angular.js**, focusing on ensuring real-time functionality and a seamless user experience.
- Engineered a real-time stock chart feature integrating **Syncfusion** for mobile and **Highcharts** for web applications, enhancing performance and providing users with current market data and insights.
- Developed comprehensive portfolio management tools that enable users to track investments and assess performance metrics effectively, utilizing **SQLite** and **Service Workers** for efficient offline data caching.
- Designed and executed an administrative web portal for the fintech application using **Next.js**, and also developed the company's websites using **Vue.js**, ensuring the scalability and efficiency.
- Consistently emphasized quality, performance, and security throughout the development process by conducting thorough testing with tools such as **Flutter's built-in testing library**.
- Delivered a robust and scalable fintech solution that not only met but exceeded expectations, utilizing **cloud-native architectures** to ensure scalability and cost efficiency.

## MOBILE DEVELOPER | JUSTWATCH, BERLIN | MAY 2015 – JUL 2019

- Designed and implemented an **Over-The-ITop** (OTT) cloud Video Platform, enabling video-on-demand, live streaming, and document sharing for 700 worldwide locations, resulting in a 17% increase in user engagement and content accessibility.
- Developed a migration plan to transition the legacy product from **AngularJS** to **React**, ensuring smoother transitions and enhanced user experiences across platforms.
- Expanded platform capabilities to mobile devices by developing native applications using **Swift** for iOS and **Kotlin** for Android, thereby facilitating seamless access to content and significantly enhancing user reach and versatility.
- Improved development quality and speed by covering 80% of the project with test cases, using **XCTest** and **Espresso** for mobile platforms and **Jest** and **Mocha** for web applications, ensuring robustness and reliability across all platforms.

- Collaborated with cross-functional teams to streamline operations and ensure alignment between mobile and web development efforts, delivering projects in a timely manner.
- Built reusable components and front-end libraries for future use in web and mobile applications, maximizing efficiency and maintaining consistency in design and functionality.
- Established and maintained project workflow using **GitHub**, fostering collaboration and version control among developers working on both web and mobile components.
- Played a key role in the Software Development Life Cycle (**SDLC**) of applications developed using **AGILE** methodology, ensuring alignment between mobile and web development efforts and delivering high-quality products on time and within budget.

**FULL STACK DEVELOPER | WOODIES, IRELAND | SEP 2013 – FEB 2015**
- Utilized **Django** and **Spring** frameworks extensively for backend development tasks, ensuring smooth integration with frontend components.
- Utilized **HTML**, **CSS**, **JavaScript**, and various frontend libraries and frameworks like **AngularJS** to craft responsive and user-friendly interfaces.
- Took part in UI design and frontend development efforts, translating design concepts into functional frontend components. Worked within the Django and Spring ecosystems, emphasizing my significant responsibilities in these areas.
- Collaborated closely with UX designers and marketing managers to plan and implement front-end features, adhering to the 5 stages of the Software Development Life Cycle (**SDLC**) within Django, Spring, and WordPress environments.
- Employed **Postman**, a REST Client, for testing frontend-to-backend interactions, ensuring seamless communication between different components.
- Adopted test-driven development (**TDD**) methodologies and automated testing practices within Django and **WordPress** projects to maintain high code quality across frontend and backend components.
- Delivered concise technical reports to senior management and clients regarding project status and technical matters, providing insights into front-end and back-end development using appropriate terminology for Django, Spring, and WordPress.

## Skills & Abilities

- HTML5 / CSS3 / XML
- Tailwind CSS / MUI / Antd
- Javascript / Typescript
- React / Angular 8+ / Vue / Next
- Redux / MobX / VueX
- React Native CLI / Expo
- Flutter Dart
- Java / Kotlin
- Objective-C / Swift
- Wordpress
- Android / iOS

- mBaaS (Mobile Backend as a Service)
- Node / Express / Nest
- Python / Django / Flask
- Java / Spring Boot / Hibernate
- DynamoDB / SQLite / Redis
- Restful API / GraphQL
- Jest / JUnit / Mocha
- Selenium / Cypress / Appium
- Git / GitHub / Bitbucket
- Agile / Scrum (Mira, Jira, Rally)
- AWS S3 / EC2

## Education

**BACHELOR OF COMPUTER SCIENCE | APR 2009 – JUN 2012 | UNIVERSITY COLLEGE DUBLIN**