David Bragg
Senior Frontend and Mobile Developer

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🪪 PROFILE

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.

💼 PROFESSIONAL EXPERIENCE

Senior Frontend Developer, *Microsoft*   09/2023 – 06/2024
Redmond, WA, United States

- Utilized Angular and **TypeScript** to design and implement robust, high-performance web applications, leading to a 30% improvement in user engagement.
- Utilized **React.js** and **Web3.js** to create a user-friendly interface for interacting with **Ethereum smart contracts**. Implemented functionalities such as staking, yield farming, and token swapping to provide users with decentralized financial services.
- Implemented code-splitting and lazy loading techniques, reducing initial load times by 25%. Optimized asset management and implemented Service Workers for offline capabilities.
- Created a library of reusable **UI** components using **Angular** and **Tailwind CSS**, ensuring consistency and speeding up development across multiple projects.
- Developed front-end components that interacted seamlessly with **blockchain networks** using **Web3.js**. Implemented wallet connections, transaction monitoring, and blockchain data visualization to enhance transparency and user experience.
- Implemented WCAG 2.1 standards to enhance accessibility, resulting in a 20% increase in user retention. Optimized web applications for **SEO**, improving organic search traffic by 15%.
- Used **NgRx** for state management, ensuring scalable and maintainable code. This reduced the complexity of the application's data flow and improved overall performance.
- Ensured all web applications were fully responsive and optimized for a wide range of devices and screen sizes, enhancing the user experience for mobile users.
- Developed unit and integration tests using **Jasmine** and **Karma**, increasing code coverage to 95%. Implemented end-to-end testing with **Protractor** to ensure application reliability.
- Conducted user testing and feedback sessions, using insights to refine UI/UX. Improved navigation flows and interactive elements, leading to a 20% increase in user satisfaction.
- Worked closely with UX/UI designers, backend developers, and product managers to deliver cohesive and high-quality products. Participated in **Agile** methodologies, contributing to sprint planning, daily stand-ups, and retrospectives.

- Utilized **Git** for version control and set up continuous integration/continuous deployment **(CI/CD) pipelines** with **Jenkins**, ensuring efficient and reliable deployment processes.
- Provided mentorship and conducted training sessions for junior developers, fostering a collaborative team environment and promoting best practices in front-end development.

Senior Frontend Developer,   09/2021 – 09/2023 | Dublin, Ireland
(NIMDTA) Northern Ireland Medical & Dental Training Agency 🔗
- 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.
- Developed decentralized applications (**dApps**) using **Web3.js** and **Ethereum smart contracts**, enhancing security and transparency in transactions. Implemented **MetaMask** integration for user authentication and seamless interaction with the blockchain network.
- 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.
- 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.
- Created a platform for minting, buying, and selling **NFTs** using **Solidity** for **smart contracts** and IPFS for decentralized storage. Integrated with popular wallets like **MetaMask** and **Trust Wallet**, enabling users to manage their digital assets securely.
- 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* ✎   08/2019 – 07/2021 | Arlington, TX, US
  - 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* ✎   05/2015 – 07/2019 | Berlin, Germany
  - 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, *Woodie's* ✎   09/2013 – 02/2015 | Dublin, Ireland
  - 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.

- Spearheaded the design and implementation of a comprehensive design system using **Tailwind CSS**, leading to a 25% reduction in development time for new features. Collaborated with the design team to ensure pixel-perfect implementations and consistent UI across the application.
- Employed **Postman**, a **REST Client**, for testing frontend-to-backend interactions, ensuring seamless communication between different components.
- Utilized **Tailwind CSS**'s utility-first approach to streamline **CSS** code, resulting in a 20% improvement in application load times. Refactored existing styles to adopt **Tailwind CSS**, reducing **CSS** bloat and improving maintainability.
- 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**.

🎓 EDUCATION

University College Dublin, *Bachelor of Computer Science* 🔗   2009 – 2012 | Dublin, Ireland

🧠 SKILLS

- HTML5 / CSS3 / XML
- Javascript / Typescript
- Redux / MobX / VueX
- Flutter Dart
- Objective-C / Swift
- Android / iOS
- Node / Express / Nest
- Java / Spring Boot / Hibernate
- Restful API / GraphQL
- Selenium / Cypress / Appium
- Agile / Scrum (Mira, Jira, Rally)

- Tailwind CSS / MUI / Antd
- React / Angular 8+ / Vue / Next
- React Native CLI / Expo
- Java / Kotlin
- Wordpress
- mBaaS (Mobile Backend as a Service)
- Python / Django / Flask
- DynamoDB / SQLite / Redis
- Jest / JUnit / Mocha
- Git / GitHub / Bitbucket
- AWS S3 / EC2