Ian Oxwell BSc(OT) MCP

Senior Full Stack Web Developer | Angular, React + .NET | Accessibility Advocate | Remote-First

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SUMMARY

Motivated, curious, and creative Full Stack **Angular / React / .NET** web developer with a **multidisciplinary background**. Ian specializes in building **functional, accessible, and interactive web-based applications** that are **device-agnostic** and meet **established business goals**. With a strong focus on **quality, scalability, and performance**, he thrives in environments where collaboration and continuous learning drive innovation. Passionate about sharing knowledge, Ian actively mentors team members and contributes to the adoption of best practices.

TECHNICAL SKILLS

Languages / Frameworks

HTML5, CSS / SASS, JavaScript
Typescript
.NET / Entity Framework
Node
Vite and webpack
Angular 4 - 19+
Angular Material
React 18 - 19
Redux, React Context, Hooks
React Mantine UI library
NestJs
Agile

Tools

Figma
Azure DevOps
AWS
Jira
Slack
Zoom

Testing / DevOps

Playwright end-to-end testing (E2E)
Jasmine unit testing
CI/CD
Git and GitHub Actions
Datadog (Observability)

Skills

Team Lead
Mentor
WCAG
Google Analytics
A/B Testing

Databases

SQL
Postgres / TypeORM
CosmosDB

PROFESSIONAL ACHIEVEMENTS

Freelance Full Stack Developer (Contract)

Via CEWA - Remote | Jan 2025 - present

Supporting Catholic Education WA's internal applications for secondary schools across the state. Engaged in various short-term and exploratory projects to maintain and enhance bespoke tools.

Working primarily with React (RTK Query, Redux Toolkit, TailwindCSS), integrating with NestJS (TypeORM/Postgres) and SharePoint Online APIs.

Senior Full Stack Developer (Front end specialist)
Roller Software (Remote) | Aug 2021 - Dec 2024

Roller is an Australian based global SAAS company focused on delivering an all-in-one ticketing and venue management software primarily for the leisure and entertainment industry.

Progressive Checkout
https://tickets.thelumemelbourne.com/thelumemelbourne/en/products
https://tickets.adventurepark.com.au/adventureparkonlinesales/en/home

Roller provides a streamlined, guest-focused online ticket purchasing experience. Initially built in AngularJS, the checkout system underwent a complete rebuild in Angular 14 with Material UI, introducing guest accounts, guest-managed memberships, and payment integrations with Adyen, Google Wallet, and Apple Wallet. Designed as an API-driven platform, the new checkout supports extensive venue customization while prioritizing a seamless mobile experience.

Market research and Google Analytics insights revealed that over 80% of guests purchased tickets via mobile devices, with a strong preference for iOS. As the sole Frontend Developer at the project's inception, Ian architected the solution with a **mobile-first** approach, optimizing for **fast time-to-first-interaction** and leveraging RxJS for lightweight state management.

The UX team provided designs and specifications in Figma, with Agile-driven scope adjustments throughout development. A key focus of Ian's later contributions was significantly improving accessibility, measured through **Lighthouse and Axe testing**. While venues retained the flexibility to use custom color schemes—some of which did not meet **WCAG 2.1 AA** contrast guidelines—the checkout still achieved a major accessibility uplift.

To ensure **data-driven decision-making**, new features were rolled out using **A/B testing**, measuring their impact on **conversion rates and user engagement**. Additionally, Ian championed and advocated for expanding **end-to-end (E2E) testing** using **Playwright**, helping to define **80+ test cases** covering major user flows and **edge-case configuration scenarios** based on real-world bug reports.

The **initial build was delivered in line with the project estimation written by Ian**. He also contributed to the **team's migration from Angular 14 to Angular 17**, ensuring continued performance improvements and framework updates. Development continues with the addition of **Food & Beverage and table-ordering checkouts** to expand the platform's capabilities.

Venue Manager Hybrid

The **Venue Manager** single-page web application spans **160+ pages**, developed organically over **12 years** in **AngularJS** by a diverse team at Roller. As a core platform with **ongoing feature development and an active Jira backlog**, migrating away from AngularJS while maintaining **continuous releases** was a significant challenge.

To address this, Ian and another frontend developer designed and built an **Angular 14 / AngularJS hybrid**

proof of concept, enabling **incremental migration** without disrupting active development. The **Phase 1 rollout** was successfully completed and released globally, embedding the **legacy AngularJS application within an iFrame** while the new Angular 14 framework handled authentication, routing, and core functionality.

Key challenges included **seamless authentication**, **routing decisions**, and **navigating iFrame security restrictions**. Overcoming these technical hurdles allowed Roller to **modernize its frontend architecture** while ensuring continued business operations and feature releases.

Mentorship and Technical Leadership

Ian actively mentors **frontend and full-stack developers**, fostering the adoption of **modern coding practices and accessibility standards** through **pull request reviews and technical discussions**. His feedback is guided by a **collaboratively developed, strongly opinionated code standard**, ensuring consistency and best practices across the team.

Beyond day-to-day mentorship, Ian has **led multiple workshops on RxJS, unit testing with Jasmine, and end-to-end (E2E) testing with Playwright**, helping developers improve their skills in **reactive programming, test automation, and scalable frontend architecture**.

He has also participated in **numerous technical interviews** for frontend-focused developers, contributing to the hiring and onboarding of new talent.

Senior Full Stack Developer (Consultant)
Dialog Information Technology (Remote) | July 2019 - Aug 2021

Dialog IT is an Australia wide IT consultancy firm. The Brisbane office had a particularly strong ongoing relationship with Queensland health.

Inform My Care - Queensland Health
https://www.informmycare.health.qld.gov.au/

As part of the Queensland Government's **Open Data Strategy**, Ian worked as a consultant on the **Inform My Care** project, which aimed to provide **public reporting on Queensland Hospitals and Aged Care**. This website aimed to improve transparency by offering **relevant, comparative data** to Queensland health consumers while holding service providers accountable.

The project used a technology stack of **Angular 8 with Material**, **EFCore**, and **MS SQL Azure Cloud infrastructure**, and was developed by a **large, cross-functional team**. As the **team lead** for the **public-facing site**, Ian collaborated closely with other team leads to ensure **timely delivery of sprints**, leveraging **Azure Boards** and **sprint planning sessions**.

Ian championed the use of **WCAG accessibility standards**, ensuring the site was **mobile-first, responsive**, and accessible. He encouraged his team to adopt **SCSS**, **flex layouts**, and **media queries** to achieve a consistent, user-friendly experience across devices. A key focus of Ian's work was the **AM Charts feature**, which integrated with **complex, large data sets** from the **EFCore/Dapper API**, ensuring the data was presented

effectively.

The site **fully met WCAG 2.0AA standards** and **cross-browser screen reader requirements**, delivering a **high-quality, accessible solution** for Queensland's health consumers.

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ECMO – Queensland Health (Internal)

Extracorporeal Membrane Oxygenation (ECMO) is a high-demand medical apparatus used to provide life support to patients with severe heart and lung failure, especially during critical times such as **COVID-19**. The **ECMO project** was developed to address the anticipated critical need for expedited decision-making by multidisciplinary teams within the **Healthcare Improvement Unit (HIU)**.

This **intranet-based web application** facilitates the transfer of patients between **Queensland Health facilities** and **Non-Government Organisations (NGOs)**, ensuring **timely, coordinated care**. Built using **Angular 8 with Angular Material**, **.NET Core 3.1**, and **MS SQL**, ECMO integrates with **QH Active Directory**, **QH Client Directory**, and **HBCIS feeds** to maintain an up-to-date Patient Master Index.

As the **lead front-end developer** in a small team of three, Ian was responsible for delivering a **complex 80-question dynamic form** within a **7-week timeframe**. The form was built using **Angular's dynamic form technology**, enabling rapid prototyping and testing. Ian collaborated closely with the backend team to **integrate APIs** and ensure the frontend consumed data effectively.

The project also involved working with the client, who provided requirements through a photocopy of the form they wished to replicate online. Ian participated in **weekly client stand-ups** and **demos**, ensuring the solution aligned with client needs and expectations.

CoVID Pathology Tracker - Queensland Health (Internal)

During the early phases of the **COVID-19 pandemic**, the **Healthcare Improvement Unit (HIU)** identified that a significant amount of staff time was spent answering queries and phoning patients after their **PCR test results**. To address this, a solution was developed to automate notifications and reduce the manual workload.

The application sourced **pathology results from AUSLAB** through a scheduled API query. **Negative results** were automatically notified to non-admitted patients via **SMS**, while remaining patients, or those who did not confirm a negative result, were dashboarded by the facility for follow-up.

As **lead front-end developer**, Ian collaborated closely with the **client** in an **Agile fast-build framework**, ensuring regular demonstrations of progress. By leveraging the existing **IHT/ECMO project code base**, Ian was able to deliver all project objectives within a tight timeframe. Notably, Ian **exceeded the unit testing goal** of 35%, achieving **45% test coverage**, which proved valuable in catching regression issues during the bug-fix phase.

A key feature of the project was a **custom Angular multi-select dropdown component**, which was highly praised by the client. The solution resulted in an estimated **$400k savings in staff time** within the first three months of its **Queensland-wide production release**.

IT Manager

Holy Cross College (Ellenbrook, WA) | Oct 2012 - June 2019

During a period of significant growth at **Holy Cross College**, expanding from **220 students** to over **1200 students and staff**, Ian served as the **first IT Manager**. He implemented a **SharePoint on-premise intranet** and iOS web-accessible file repository, ensuring compliance with strict web access and security policies.

Ian developed a suite of **web applications** using **AngularJS**, later upgraded to **Angular 4->7**, to enhance operational efficiency, including:

- **Electronic Forms** for leave, excursion, and risk management
- **Daily Notices** with security trimming for staff and students
- **Booking System** for resources like buses and rooms
- **Cooking App** for managing ingredient lists based on weekly recipes
- **File System** enabling iPad uploads and document manipulation from iOS 8+

Ian also **recruited, led, and trained a team** of two IT staff, fostering a **friendly, approachable service** for the school community.

EDUCATION

Bachelor Science
Curtin University
1995 – 2001

Azure Fundamentals
Microsoft
2020

REFEREES

Amos Wei - Sydney
Developer - Peer - Roller
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