

Jon Wyatt

Front end & Node.js developer

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The core of my skillset is front end, including expertise in React, page load performance, accessibility and authoring UI component libraries. I also have 8 years' solid experience of Node.js.

I understand every angle of a successful agile team including user-centred research and design, continuous delivery, TDD, test automation & strategy, pairing and shared ownership of quality and dev-ops.

Full-stack Javascript

- React including hooks, context, server-rendering
- Typescript
- Node.js, Express, PostgreSQL, MongoDB
- ES.Next language features
- Functional / asynchronous programming patterns
- TDD / BDD with Jest, React Testing Library
- Browser testing using Cypress, Nightwatch, Webdriver.io
- REST API design
- Security awareness including XSS, CSRF
- Micro-frontend architectures

Styling

- CSS-in-JS including Styled Components, Emotion
- Responsive / mobile-first
- Adaptable layouts with grid / flex box
- SASS / PostCSS
- Reusable components

Other front end

- A strong understanding of UX and interface design principles
- Performance - caching, prefetching, bundle optimisation. RUM, web vitals, Lighthouse, SpeedCurve
- UI component libraries - authoring & distributing via NPM
- Accessibility - extensive practical experience; screenreader / voice activation, ARIA, keyboard access
- SEO - structured data / schema.org; Accelerated Mobile Pages
- Progressive enhancement for performance / robustness / cross platform use
- Mobile web development and debugging using emulators / remote dev tools / device class recognition
- Vector graphics – interactive SVG

General tooling / software engineering

- Micro-services - architecture, testing, deployment
- Monitoring / alerting / metrics eg New Relic, Datadog
- Deployment / CI with AWS / CircleCI / Jenkins / Travis / Heroku / Docker
- Use of feature flags
- Google Analytics capture / reporting
- Entity Relationship Diagrams for DB development; C4 for system architecture diagramming

Professional experience

Ministry of Justice (via Equal Experts)

July 2021 - present

Services for probation, to manage the recall of a person to prison. Full stack with Node.js.

UK Foreign Office (via digital agency)

Dec 20 - June 2021

Researching and planning new services for travel advice and document legalisation; I've worked on prototyping, accessibility and architecture. Full stack with Node.js.

Trainline

Mar 20 - Dec 20

Increasing user engagement and signup including promo codes Google One Tap, plus accessibility improvements eg screenreader testing. React inc hooks / Node.js / Typescript / React Testing Library

Culture Trip

Mar 19 - Mar 20

Added hotel booking to a high-traffic travel web site. Helped set up a component library, and prototyped a micro-frontends architecture. Stack is React / Node.js / Typescript / Styled Components

Sainsbury's

Aug 18 - Mar 19

Accessible web apps to engage with Sainsbury's suppliers at togetherwith.co.uk, built with React / Node.js.

Financial Times

Dec 17 - Aug 18

Rebuild of ft.com user preference centre in Node.js. Fast page load performance, accessibility and progressive enhancement were all requirements.

The Times

Nov - Dec 17

UI components for native and web drawn from a single library using React Native Web.

Agri-tech startup

May - Sept 17

Rapid prototyping of game-changing ideas for the agri-tech industry involving provenance and waste reduction. Native and web apps built with React, Redux, React Native, MongoDB and REST APIs.

Times Educational Supplement

Apr 15 - Apr 17, Oct 17

Rebuild of tes.com flagship Jobs site, home page and news feed with a cutting-edge tech stack of React, Redux, Node.js, Docker. I helped lead the rebuild of the front end architecture including component-based SASS and a drive to improve page load performance.

Government Digital Service

Nov 14 - Apr 15

Interactive, fully accessible data visualisations to show how much government services cost to run and how many people use them (www.gov.uk/performance).

Equal Experts

Oct – Nov 14

A short contract at the Home Office, prototyping a shift-swap system for Heathrow workers.

Money Advice Service

Feb – Oct 14

A pension calculator. Development was guided by observed user-testing and fully accessibility tested. A Rails stack with SASS, OOCSS, Karma, Mocha plus Capybara for UI testing.

Which?

Apr 13 – Feb 14

TV Reviews site built with Rails. Progressive enhancement was used with Ajax / pushstate for fast initial page loads and rapid switching of views. Rapid prototyping of ideas for graphing data with SVG.

Royal Bank of Scotland

Aug 12 – Mar 13

Single page apps for Markets & International Banking using Backbone / Marionette / REST. Acceptance tests with Ruby / Cucumber. Javascript testing in Jasmine.

Associated Press

Jan – Aug 12

A brand-new delivery platform for broadcast-quality video news (apvideohub.com). Video Hub has been a major success for AP and has expanded into a marketplace for other content providers including WSJ and NY Times.

Betfair

Jan – Dec 11

A complete rebuild of Betfair's sports site which handles millions of transactions daily. Page load time was analysed in WebPageTest and reduced from 20s to < 2s. I used YUI3 and unit tested with Jasmine.

LBi

Jul – Dec 10

SVG data visualisations for a national energy saving scheme and interactive graphs for online banking.

Espresso Education

Oct 02 – Jun 10

Video-rich learning resources subscribed to by over half of the primary schools in England, and winner of multiple BETT awards and a Children's BAFTA. I became lead front end developer across all products, working closely with content producers and mentoring other developers.

Education & interests

2:1 BSc (Hons) Biology - Cardiff University | 3 A levels (Maths, Business, Spanish)

I enjoy road / mountain biking, gym training, learning the piano, travel and helping my kids with their pursuits.

I volunteer for Code Your Future who offer free software development courses to under-represented groups.