



A dedicated and highly skilled senior UI / Full Stack developer and tech lead with a wide range of commercial experience building websites and web apps over the last 20+ years. Expertise includes designing and developing rich, progressively enhanced, responsive, accessible websites integrated with complex backend systems. Experienced in technical design and development; team leading and mentoring; working closely with stakeholders, BAs, solution architects; requirements and estimation; defining development workflows, roles and responsibilities and developing enterprise and startup applications through to production. Always striving to push best practices including accessibility, user experience, security, responsive design, automated testing and code review.

## Key skills summary

- JavaScript (inc. FP / OO / ES6+), TypeScript, Node.js
- React (inc. hooks)
- Redux, Saga, Flux implementations
- Express, Nginx, Apache
- AWS (inc. S3, CloudFront, Serverless: Amplify, Lambda, API Gateway, Cognito, DynamoDB)
- RESTful web services
- CSS-in-JS / Styled components, SASS, CSS (BEM / OOCSS / modules)
- HTML5, XML / XSLT / XSD
- Universal, PWA
- BDD (Cucumber / Gherkin) / TDD, Jest, Enzyme, jest-axe
- BrowserStack, Cypress, Protractor, Selenium
- CI / CD (Jenkins, Amplify Console, GitHub workflows, Travis, TeamCity)
- Webpack (inc. custom plugin dev), Parcel, Lerna, Grunt / Gulp
- CouchDB, PouchDB
- Storybook, Swagger, JSDoc / TypeDoc
- Responsive / Progressive enhancement, SEO, Accessibility WCAG 1/2, i18n / l10n with translation workflows
- JIRA, Agile (Scrum, Kanban)
- Git, Subversion
- Sonar, Security considerations (OWASP)
- PHP 5+ (OO)

### Other skills

SQL Server / MySQL, Photoshop, IIS, Solr, Lucene, AngularJS, Browserify, .NET (C#)

## Recent key project history

### Property Rental Workflow & DAM

**Role:** Technical Lead / Senior Full Stack Developer

Architected, designed and developed a serverless product in AWS to allow users to build complex WYSIWYG designed documents and forms driven by schemas with user/role document permission ACLs. Custom workflows could be used for end user data collection and signatures (using canvas). Documents could have artifacts such as photos and videos attached and completed offline by agents in the field and automatically synced when online. Worked closely with domain experts to build the feature backlog and developed the application from prototype with UX validation and end-user testing.

**Key skills/technology:** React, Redux, TypeScript / ES6+, Node.js, AWS (Amplify Console / CLI, Lambda, API Gateway, Cognito, DynamoDB), PWA, Webpack, Jest + Enzyme, Cucumber / Gherkin, Cypress / BrowserStack, Material-UI, JIRA, Storybook / TypeDoc / Swagger, GitHub workflows, Sonar

### Wiley

**Role:** Technical Lead / UI Team Lead / Senior Full Stack Developer

Led a team to design and develop a set of enterprise applications to workflow and publish complex schema driven academic articles with formulas and rich media. Worked closely with product stakeholders, solution / platform architects, BA, UX, test and backend teams in multiple time zones. The project was made up of 3 main applications:

### Wiley Proofing Tool

Designed and developed a publishing proofing tool UI to allow production editors to coordinate the authoring, peer review and updating of articles within journals. Annotations were used to request, discuss and finalise modifications to an article through tasks and workflows before publication using the Wiley Publishing Platform and Content Preflight.

### Wiley Publishing Platform

Designed and developed a publishing platform that integrated with complex state machine for workflow and RESTful APIs for document status, metadata and content. Articles could be marked up and annotated with rich text comments and tasks pushed through multi-user workflows. Images and other media could be attached, annotated and pushed through their own workflows.

### Wiley Content Preflight

Designed and developed an article preflight tool for production editors which aggregated data from multiple systems made up from over 170 service components and presented the current article metadata and monitored the status of all related assets and media. Designed and built authenticated API gateway using JWT in Node to aggregate and transform data from microservices. Worked closely with end users, stakeholders, BA and architects to deliver the UI from wireframing and prototype through to delivery.

**Key skills/technology:** React, Redux, TypeScript / ES6+, Node.js, Styled Components, OOCSS/BEM, SASS, Express + Nginx, AWS (S3, CloudFront), Webpack (with custom plugins), Jest + Enzyme, Cypress / BrowserStack, Universal SSR, PWA, Sonar, JIRA, Jenkins, WCAG 1.0/2.0 / i18n / l10n, MathML

## Confidential (Entity Network Product)

**Role:** Technical Lead / Senior Full Stack Developer

Developed a new mobile first SaaS product for the finance sector. Designed and built an authenticated API gateway with Node to transform, aggregate and decorate data. Consumed data was represented in the UI with React components displaying entity network diagrams using Canvas to allow users to reason about connections and discover more detailed information with dynamic overlays. PouchDB was used to manage user data and synced to CouchDB backend to provide a robust offline/mobile experience with collaboration and conflict resolution.

**Key skills/technology:** React, Redux, TypeScript / ES6+, PouchDB / CouchDB, Express + Nginx, AWS, PWA, Node.js, Material-UI, Webpack, Jest + Enzyme, Cucumber / Gherkin, JIRA, GitHub workflows, Storybook / TypeDoc / Swagger, Sonar, jest-axe, WCAG 1.0/2.0 / i18n / l10n

## Component Library (Lerna monorepo)

**Role:** Technical Lead / Senior Developer

Developed a monorepo for company wide component / library / design token development, distribution and reuse. GitHub workflows were used for CI/CD and documentation generated using Storybook / TypeDoc. CD was used to deploy documentation to an internally available server and updated packages were published to a private npm registry with GitHub release notes, changelog and version bumps inferred from conventional commits. Custom Storybook components were created to provide consistent documentation for component versioning information and installation instructions.

**Key skills/technology:** Yarn + workspaces, Lerna, Storybook / TypeDoc, GitHub workflows, React, Jest + Enzyme, Cypress, Sonar, jest-axe, WCAG 1.0/2.0 / i18n / l10n

## Needle (Cross repository document search and preview)

**Role:** Technical Lead / Senior Full Stack Developer / UXD

Designed and developed a new SaaS product to provide sophisticated search and refinement features to locate and

preview documents across multiple repositories. Included a set of analytic / charting tools to find duplicate and close match documents and monitor content statistics. Search results included document specific metadata with preview and Google Images style view with inline preview. Worked closely with end users, BA and domain experts to design and develop from prototype and was responsible for putting together the development process including PR / review, CI, automated testing strategies and feature flow and status in JIRA.

**Key skills/technology:** React, Redux, TypeScript / ES6+, Node.js, Styled Components, CouchDB, Universal SSR, PWA, Webpack, Jest + Enzyme, Sonar, jest-axe, Cypress, JIRA, Jenkins, Express + Nginx, AWS (S3, CloudFront), WCAG 1.0/2.0 / i18n / l10n

## Other key projects

**Tesco.com** — Technical Lead / UI Team Lead / UI Architect / Senior Full Stack Developer

**New Grocery Superstore, Tesco Direct, Tesco.com Superstore, Tesco Recipes / Clubcard Deals, Tesco.com 'Extra'**

**Key skills/technology:** .NET (C#), XML/XSL/XSD, JavaScript (OO/AJAX), XHTML, CSS, MS SQL Server, Endeca, WCAG 1.0/2.0

**DK Asset Library** — Technical Lead / UI Team Lead / Senior Full Stack Developer

**Key skills/technology:** Backbone/underscore, jQuery + custom plugins, OOCSS/BEM, RequireJS / AMD, SASS (+Compass), Grunt (including Maven integration, JSHint, JSCS), Node.js, Mocha + Chai, Sinon, PHP, Handlebars, FreeMarker, Bower/npm

**20th Century Fox Television** — Technical Lead / Senior Developer

**Key skills/technology:** PHP, jQuery + custom plugins, Less, Grunt, WCAG 1.0/2.0

**Press Association** — Technical Lead / Senior Developer

**Key skills/technology:** JavaScript (OO), XForms, WebSphere, Java, XML, jQuery, HTML5, CSS, Jenkins, JUnit

**Dods** — Technical Lead / UI Architect / Senior Full Stack Developer

**Dods Training Journal, Dods Legislation Tracker, Dods EU Monitoring**

**Key skills/technology:** UXD, XSL/XML/XSD, PHP 5 (OO), PHPUnit, JavaScript (OO/AJAX/jQuery/JUnit), XHTML, CSS + SASS, Jenkins, MySQL, SOAP, MarkLogic, Subversion

**Ascend Content Discovery Platform & DAM** — Technical Lead / UI Team Lead / Senior Developer

**Key skills/technology:** AngularJS, Browserify, OOCSS SASS (+ Compass), Bootstrap, Grunt (including Maven integration JSHint, JSCS), Karma + Jasmine and protractor for end-to-end testing, Sinon, Bower/npm

**Sony** — UXD

**Key skills/technology:** requirement gathering / UXD, assisting client through UX process, Balsamiq + PHP prototype

**RR Donnelley E-commerce Platform** — Technical Lead / Senior Developer

**Key skills/technology:** OFBiz, Java, Groovy, FreeMarker, JavaScript (OO), XHTML, CSS, mobile optimisation, WCAG 1.0/2.0

**British Standards Institution DMS Prototype** — Senior Developer / UXD

**Key skills/technology:** UXD, .NET (C#), XSLT, JavaScript (OO/AJAX), PHP5, XHTML, CSS, XSL/XML/XSD, MarkLogic

## Work history summary

Ixxus / various — **Contract Senior UI / Full Stack Developer / Tech Lead / Team Lead** ('08 – Present), IVIS Group —

**Consultant Senior UI / Full Stack Developer / Tech Lead / Team Lead working on Tesco.com products** ('02 – '08),

Framfab UK — **Consultant Senior UI Developer / Tech Lead** ('00 – '02), JATO Dynamics — **Senior Developer** ('98 – '00),

Silversands Computers — **Developer** ('96 – '98), Siemens Plessey Controls — **Apprentice** ('90 – '94)

## Education

1996 Bournemouth University — **BSc. (Hons) Software Engineering Management**

1994 Bournemouth University — **HNC Software Engineering Management**

1992 Bournemouth and Poole College — **ONC Electronics 1990-1994 NVQ III, IV, V.**

# References

Available on request.