

# Matt Dunn

Senior User Interface / Full Stack Developer

 [linkedin.com/in/matthewjdunn](https://www.linkedin.com/in/matthewjdunn)

 [github.com/matt-dunn](https://github.com/matt-dunn)

e: [matt.j.dunn@gmail.com](mailto:matt.j.dunn@gmail.com), London UK

A dedicated and highly skilled senior UI / Full Stack developer and tech lead with over 20 years commercial experience building websites and web apps. Expertise includes designing and developing rich, progressively enhanced, responsive, accessible websites integrated with complex backend systems. Experienced in technical design and development; team leading; working closely with stakeholders, BAs, solution architects; defining development workflows, roles and responsibilities; project estimation and developing POC 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
- Styled components, SASS, CSS (BEM / OOCSS / modules)
- HTML5, XML / XSLT / XSD
- Universal, PWA
- BDD (Cucumber / Gherkin) / TDD, Jest, Karma, Mocha, Enzyme, Jasmine, Chai, Sinon
- Protractor, Selenium, Cypress, BrowserStack
- CI / CD (Travis, Jenkins, TeamCity, Amplify Console, GitHub workflows)
- Webpack (inc. custom plugin dev), Parcel, Lerna, Grunt
- 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, ESLint, stylelint, Plato
- Lodash, Underscore, jQuery, Backbone

## Other skills

SQL Server / MySQL, PHP, Photoshop, Security considerations (OWASP), IIS, Solr, Lucene, AngularJS, RequireJS + AMD, Browserify, .NET (C#)

## Recent key project history (present – 2015)

### Entity Network Product

**Role:** UI Technical Lead / UI Team Lead / Senior 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 the connections and discover more detailed information with dynamic overlays. PouchDB 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, JIRA, git / GitHub workflows, Storybook / TypeDoc / Swagger, static analysis tools

## Property Rental Workflow & DAM

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

Produced the technical design and developed a product to allow agents to build custom, WYSIWYG designed forms driven by schemas with role/user document permission ACLs to allow clients to workflow end user data collection and signatures (using canvas) through to review and sign off. Documents could be stored offline for field work and synced when online.

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

## Wiley Publishing Platform

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

Led a team to design and develop an enterprise publishing tool UI to workflow and publish complex Melville schema articles with formula and rich media. Designed, developed and integrated with complex state machine for workflow and RESTful api 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. Worked closely with product stakeholders, solution/platform architects, BA, UX, test and backend teams in multiple time zones.

**Key skills/technology:** React, Redux, TypeScript / ES6+, Node.js, Styled Components, OOCSS/BEM, SASS (+ Compass), Webpack, Jest + Enzyme, static analysis tools, JIRA, Jenkins, git, Express + Nginx, AWS (S3, CloudFront), WCAG 1.0/2.0

## Component Library

**Role:** UI Technical Lead / Senior Developer

Developed a monorepo for company wide component / library / design tokens development and distribution with GitHub workflows for CI/CD with full test coverage and documentation generation using Storybook / TypeDoc with CD to an internally available server to allow developers to explore and examine available components and packages published to an org-scoped private npm registry with GitHub release notes, changelog and version bumps inferred from conventional commits. Custom Storybook components were created to help provide consistent documentation for component version, installation instructions, etc.

**Key skills/technology:** Yarn + workspaces, Lerna, Storybook / TypeDoc, GitHub workflows, React, Jest + Enzyme, Cypress

## Wiley Proofing Tool

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

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. Worked closely with product stakeholders, solution/platform architects, BA, UX, test and backend teams in multiple time zones.

**Key skills/technology:** React, Redux, JS/ES6+, Node.js, Styled Components, OOCSS/BEM, SASS (+ Compass), Webpack, Jest + Enzyme, static analysis tools, JIRA, Jenkins, git, Express + Nginx, AWS (S3, CloudFront), WCAG 1.0/2.0

## Needle

**Role:** UI Technical Lead / UX / Senior Developer

Designed and developed a new 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 type specific metadata with previews and Google Images style image view with preview. Worked closely with end users, BA and backend team to design and develop the UI from prototype and was responsible for putting together the development process including automated testing, PR / review, CI, 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, static analysis tools, Protractor, JIRA, Jenkins, git, Express + Nginx, AWS (S3, CloudFront), WCAG 1.0/2.0

## Wiley Content Preflight

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

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. Worked closely with end users, stakeholders, BA and architects to deliver the UI from wireframing and prototype through to delivery. Designed and build authenticated API gateway in Node to aggregate and transform data from microservices.

**Key skills/technology:** React, Alt (Flux), JS/ES6+, Node.js, OOCSS/BEM, SASS (+ Compass), Universal SSR, PWA, Webpack, Karma + Chai + Enzyme, static analysis tools, JIRA, Jenkins, git, Express + Nginx, AWS (S3, CloudFront), WCAG 1.0/2.0

## Other key projects (2015 – 2000)

**Ascend Content Discovery Platform & DAM — UI Technical Lead / UI Team Lead / Senior UI 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, Bower/npm

**DK Asset Library — UI Technical Lead / UI Team Lead**

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

**Dods Training Journal — UI Technical Lead / Architect**

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

**Dods Legislation Tracker — UI Technical Lead / Architect**

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

**Dods EU Monitoring — UI Technical Lead / Architect**

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

**20th Century Fox Television — UI Technical Lead**

**Key skills/technology:** PHP, jQuery, LESS, Grunt, WCAG 1.0/2.0

**eBook Store — UI Lead / UXD**

**Key skills/technology:** requirement gathering / UXD, wireframe development, Balsamiq

**Publishing platform product — UI Technical Lead / Architect**

**Key skills/technology:** requirement gathering / UXD, responsive, PHP 5 (OO), PHPUnit (including code coverage, phpcpd, Selenium), Jenkins, PHPDoc, Composer, XML/XSL/XSD/XSL-FO, XHTML, SASS, JavaScript / jQuery / Backbone, Mocha + Chai, Grunt, Git, WCAG 1.0/2.0

#### **Ixxus Web Framework — UI Technical Lead / Architect**

**Key skills/technology:** PHP 5 (OO), PHPUnit, XML/XSL/XSD, Alfresco (WCM), Solr, JavaScript (OO/AJAX/jQuery), XHTML, CSS + SASS, MySQL, mobile optimisation

#### **Press Association — UI Technical Lead**

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

#### **Ixxus Corporate Website — UI Technical Lead / Architect**

**Key skills/technology:** Alfresco (WCM), PHP 5, JavaScript (OO), XML/XSL/XSD, Solr, XHTML, CSS, WCAG 1.0/2.0

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

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

#### **British Standards Institution DMS Prototype — UI Developer / UXD**

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

#### **Tesco.com New Grocery Superstore — UI Technical + Team Lead / Architect**

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

#### **Tesco Direct — UI Technical + Team Lead / Architect**

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

#### **Tesco.com Superstore — UI Technical + Team Lead / Architect**

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

#### **Tesco.com Clubcard Deals — UI Architect / Lead developer**

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

#### **Tesco.com 'Extra' — UI Technical + Team Lead / Architect**

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

## Work history summary

Ixxus / various — **Contract Senior UI / Full Stack Developer / Tech Lead / Team Lead** ('08 – Present), IVIS Group — **Consultant Senior UI Developer working on Tesco.com products / Tech Lead / Team Lead** ('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.