Ed Williams

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PROFILE

As a Frontend Developer and Full Stack Developer, I have many years of experience in building robust and scalable websites, webapps and PWA's. As well as solid commercial experience of building full-stack applications.

As a contractor I enjoy taking the lead in projects wherever possible and have experience working solo / remotely and in small teams mentoring other developers. I always work to high standards and deliver maintainable and test driven software while keeping the end user in mind at all times.

I have consulted for enterprises of all sizes (Discover, RAC, PassivSystems, Jaguar Land Rover, Good Energy, et al) and enjoy communicating with the client and all stakeholders throughout a project.

Specialising in React / Redux has been a natural fit for my development style as I favour a functional / declarative approach to programming and always seeks to lift as much of a codebase into pure functions as possible, where it can be written into utilities / libraries and tested.

As a UI expert I have extensive experience with animations *(CSS, SVG and WebGL)* and feel equally at home styling interfaces with JavaScript *(CSSinJS)* as I do with CSS precompilers *(SASS)*. I have also become a keen advocate of PWA's and conform to best practices (e.g. responsive design, cross browser development) whilst retaining solid commercial experience of App store deployment *(Cordova)*.

Having worked end-to-end on many large projects I am comfortable taking on all of the above alongside other responsibilities, such as writing CI build scripts *(Bash / Webpack / Gulp / Grunt)*, designing databases *(MySQL / DynamoDB / S3)*, architecting API's *(Node / AWS / Heroku / PHP)*, keeping fine grain version control *(Git)* of codebases on the command line and working in multiple environments *(Linux / OSX / Windows)*

See below for a <u>selective list the applications I have developed over recent years as a contractor</u>. For more info / links, please visit: edwilliamsdevelopment.com

PREVIOUS CONTRACTS

Discover, Farnborough   May 2019 - Present

In this UI Tech Lead role I have been contracted to lead a team of developers to rebuild part of Discover's Enterprise Payment Platform (EPP)

Enterprise Payment Platform

- Migrating from Angular 1 to React
- Employing a MicroApp and multiple repo approach
- Working with a distributed team across multiple time zones
- Making architectural design decisions
- Mentoring developers
- Other Tech Lead duties (e.g. ensuring best practice, liaising with project management, etc)

RAC, Bristol   March 2019 - May 2019

In my role at RAC I helped finish a rebuild of a critical part of their website.

RAC - UK Breakdown Cover

- Recruiting and onboarding a team of developers
- Migrating from Angular 1 to Angular 7
- Fixing UI bugs
- Working to a tight fixed deadline

PassivSystems, Newbury   January 2017 - March 2019

As sole App developer at PassivSystems, I rebuilt heating the PassivLiving App from a small legacy Ember codebase to an enterprise grade WebApp deployed to both the App Store and Google Play (via Cordova).

PassivLiving App

- Working independently to build enterprise-grade React / Redux App
- Engineering UI updates around a bespoke long polling system
- Writing bespoke SVG and WebGL animations to represent heating states within the app
- Translating proprietary business logic into standalone JavaScript libraries
- Writing and maintaining unit tests and working with QA in integration testing

- Initial maintenance then migration of legacy codebase *(Ember)* and build systems *(Grunt / Gulp)*
- Leading regular stakeholder meetings to plan new feature architecture
- Debugging via device emulation in Xcode and Android Studio
- Writing and updating Webpack and Jenkins build scripts
- Maintaining and utilising Cordova plugins
- Exposure to IoT via PassivSystems hardware (e.g. Smart Thermostats, Hubs, etc)
- Assisting with wireframe development with City University students *(MA UX)*
- Working with contract designers to realise wireframes into designs / animations

Virtual Forge, Holt   August 2016 - November 2016

I rebuilt a core piece of functionality of the Jaguar Landrover e-learning system, based on new designs, and worked closely with other developers to integrate this with their existing bespoke platform.

Jaguar / Landrover Learning Platform

- Building the UI in vanilla Javascript due to support requirements (borrowing heavily from Angular's design pattern)
- Working as part of a distributed national and international team
- Performed large scale CSS refactor and legacy JS support (inc. KnockoutJS)
- Using VM's to integrate into a .NET workflow, inc. TFS version control and Razor templates in Visual Studio
- Browser support stretching back to Internet Explorer 8

Dare West, Bristol   June 2016 - August 2016

*I joined Dare West as a Fullstack Developer to assist them in completing a site rebuild for the **School of Economic Science**. I continued with Dare West as a Frontend Developer to work on their project with **Good Energy**.*

EDUCATION

Exeter University, PGCE - 2005 - 2006
Dartington College of Arts, BA (Hons) Music Composition - 2002 - 2005