Joe McGrath

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Work Experience

Webflow
May 2019 - present

Senior Software Engineer contributing to a visual website design and development platform with over a million customers. Worked on various high-impact features across multiple teams, including content editor, multi-user, comments, activity log, and internal codebase decoupling & modularisation.

FanDuel
December 2017 - May 2019

Senior UI engineer building a fantasy sports app which serves millions of users. Includes line management of multiple engineers, plus working with multiple teams to drive innovation in the company's customer-facing web app.

Senior Software Engineer
July 2018 - May 2019

- Led frontend development of the web app's new content discovery UI using **React**, **Redux**, **GraphQL**, and **fela**. Involved from problem statement and design through to production and iteration. Demonstrated **27% uplift in desired metrics** via A/B testing, and laid groundwork for transformative product changes.

- Contributed both as part of an agile team and as a web platform lead, influencing the approach across teams via line management, mentorship, support for various projects, and exploration of new technology and approaches.

- Developed the company's first open-source library, **Refract**, and provided guidance to other developers learning **reactive programming**.

Software Engineer
December 2017 - July 2018

- Built UI for new consumer facing features, contributing to the company's double-digit YOY revenue growth.

- Investigated and implemented platform improvements within our **React/Redux** codebase, improving DX and making the app more maintainable and scalable.

- Collaborated in review and refinement of the frontend team's hiring process and onboarding approach.

Beezer
July 2017 - June 2018

Frontend Developer at a SaaS startup building an innovative PWA-creation platform aimed at non-technical users. Transitioned to part-time after joining FanDuel.

- **Rewrote UI codebase from scratch in two months, projected to save over £5 million in direct costs alone.**

- As part of the rewrite: **reduced codebase size by more than 50%** while reducing complexity, cutting development times for new features from weeks to hours, **reducing bundle size by up to 90%**, adding many customer-facing features and user experience

improvements, writing comprehensive documentation, onboarding other engineers to the new system, and much more.

- Prior to the above project, wrote two-pager explaining the flaws in the current system and outlining the ideal way forward. Sought and obtained buy-in from people at all levels of the company, by tailoring communication to both technical and non-technical people across various disciplines.

- Designed and implemented major features using React, Redux, Firebase, styled-components, webpack, node, and more. Contributed to the business roadmap and management of workload, triaged and fixed bugs, etc.

UntitledTM   October 2009 - July 2017

Web developer at a WordPress agency, building dozens of sites for small to medium enterprises, including custom functionality built using JavaScript. Projects were primarily brochureware, plus occasional e-commerce sites, interactive knowledgebase systems, or similar.

Lead Web Developer   *July 2012 - July 2017*

Web Developer   *January 2010 - July 2012*

Intern Web Developer   *October 2009 - January 2010*

Open-Source Contributions

Refract   refract.js.org

Maintainer of Refract, a library which combines React with RxJS and other reactive programming libraries. Major contributions including the majority of the documentation, several major features, code review, and design and analysis of different options at each stage of development.

Refract is similar in concept to redux-observable, but coupled to components (ideal for code-splitting and reuse), with an API designed for general-purpose use across multiple data sources and imperative side-effects.

Other Contributions

Contributed documentation and/or code to several libraries of varying popularity: redux, fela, react-zap, react-local-reducer, react-state-hoc.

Education

FdA Graphic Design   Mid Cheshire College, *September 2010 - June 2012*

ND Graphic Design   Mid Cheshire College, *September 2008 - June 2010*