

# Drew McMillan

## Staff Fullstack Software Engineer (Web)

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### About Me

Working as a Software Engineer for both household names BBC & Trainline and a fast paced startup, I have built sites in over 40 languages and have experience scaling applications to serve hundreds of millions of users. I am passionate about full stack Javascript and focus on improving performance to better serve users.

### Employment

#### Oct 2023 - Now **Staff Engineer - Trainline**

- Focusing on Tech Modernisation & productivity boosting, my responsibilities as a staff engineer including ensuring the success of teams I work with, as well as designing and proposing projects that would achieve our goals. This currently involves leveraging GraphQL in our customer facing web apps in a way that does not slow down productivity while following modern best practices.

**Tech Stack:** *Typescript, GraphQL (Relay, Mesh), React, Node, Webpack, Redux, Babel*

#### Feb 2022 - Now **Volunteer Software Engineer - Good Thinking Society**

- Part-time volunteer role working on [parallel.org.uk](http://parallel.org.uk). Building a new suite of experiences aid teaching 10-17 year olds mathematics. Using Remix, Lambda & GraphQL AppSync to create interactive webinars & onboard thousands of students to personalised maths tutorials with quizzes, tests, reports & data dashboards. Our mission to improve the diversity and number of mathematicians in the UK.

**Tech Stack:** *GraphQL (Relay), React, AWS AppSync, AWS DynamoDB, AWS Lambda, CloudFront*

#### June 2021 - Oct 2023 **Senior Web Engineer - Trainline**

- Leading the engineering effort to create a new GraphQL gateway application, surfacing data from existing REST APIs to refactor large parts of our website. Using Relay to improve performance, dev experience and code quality across a large booking flow application.

**Tech Stack:** *Typescript, GraphQL (Relay, Mesh), React, Node, Webpack, Redux, Babel*

#### Feb 2021 - May 2021 **Software Engineer - Garaji**

- Utilised React Native & Lambda to create a single application which when deployed, served multiple usecases and target audiences, both on the web and to native IOS and android. This approach was not only less costly to implement, but allowed us to develop across platforms extremely quickly to meet tight deadlines.

**Tech Stack:** *Typescript, React Native (IOS & Android), Lambda, React Native Web, Node, Webpack, Redux, Angular*

#### Nov 2019 - Feb 2021 **Web Engineer - Trainline**

- Worked in both mobile & desktop web feature team using AB testing and rapid iterations to serve an audience of over 96m monthly visits.
- In the core application team, I used data driven metrics to measure success in Performance improvement & infrastructure changes to optimise the user experience & solve department wide technical issues.
- Introduced and acted as a Performance Champion with the aim of improving customer facing performance thought targeting Google Web Vitals and upskill the rest of the department in improving performance.

**Tech Stack:** *Typescript, React, Node, Webpack, Redux, AWS EC2, S3*

#### Nov 2018 - Nov 2019 **Software Engineer - BBC News**

Originally on the core Articles team, I become a central member of the Simorgh project (<https://github.com/bbc/simorgh>). At it's core it is an Isomorphic React application that serves articles and frontpages to users both in the UK and around the world. The second deliverable, BBC World Service frontpages, were delivered with a team inexperienced on the codebase and through regular code reviews and many workshop sessions I helped guide us to delivering very rapidly.

**Tech Stack:** *Javascript, React, Node, Webpack, AWS EC2, ELB, Lambda, S3*

#### Sept 2017 - Nov 2018 **Trainee & Junior Software Engineer - BBC News**

**Tech Stack:** *Javascript, React, Node, Ruby*

### Education

#### 2014 - 2018 **BSC Computer Science @ Aberystwyth University – 1st**

1st Class Honors Degree in 'BSC Computer Science (with integrated year in industry)'

#### 2007 - 2014 **A Levels @ Stratford upon Avon School**