

# DAVID BRAMWELL

## SUMMARY

I am a software developer with 8 years of experience as a developer, devops engineer and QA. My most recently used programming languages are Python and Javascript however in the past I have had commercial experience using Ruby, Java, Groovy, PHP and others, as well as lots of exposure to various Linux flavours and bash scripting. My past experience in QA and as a devops engineer have led me to continually keep up to date with new testing, automation and infrastructure tooling and I approach new development with ease of testing and deployment at the forefront. I'm currently a big fan of orchestrating local environments with Docker Compose, Cypress for E2E testing and the AWS CDK for writing infrastructure as code. I am an AWS certified developer ([https://www.youracclaim.com/badges/bb4735ce-1d2d-4a57-a58c-8993e4b81f9a/public\\_url](https://www.youracclaim.com/badges/bb4735ce-1d2d-4a57-a58c-8993e4b81f9a/public_url)).

In my spare time I like to look at technologies and tools that I've not used in my professional roles and contribute to open source. A list of my open source contributions can be found at <https://dbramwell.github.io>. Early into my learning of ReactJS I started a project called react-animate-on-scroll (<https://dbramwell.github.io/react-animate-on-scroll/>) which has become popular although is a bit dated now and could probably benefit from a rewrite! I've written two android games, one of which is a brick-break style game written in Android/Java, the other generates simple maths puzzles and is written in Javascript and React-Native.

## PREVIOUS EMPLOYMENT

### September 2020 – Current

Sponge (Senior Software Developer):

Skills Used: Python, VUE js, Terraform, Kubernetes, GCP, CDK, AWS, Docker, Github Actions, PSQl

- Led development of a new website post a merge of companies in early 2020. Pushed for infrastructure as code and using serverless technologies. Developed with Wagtail CMS, running on App Engine in GCP, deployed using Terraform automatically by Google Cloud Build.
- Leading development on a new platform comprising of a multi tenanted Learning Management System (LMS), Learning Analytics service and Assessments/Surveys tool. Using FastAPI and SQLAlchemy to develop backend APIs, Vue to develop static frontends. Adopting a microservices approach and staying serverless where possible to ease scaling and decrease maintenance costs. Using the CDK to orchestrate deploying to AWS services including Lambda, Cognito, API Gateway, RDS, S3 and Cloudfront.
- Key developer on the legacy LMS, using Python, Django and Vue.
- Led the push for automated unit and integration tests running in github actions against pull requests, which has become a standard for new projects going forward.

### March 2020 – September 2020

Endemol Shine Group (Technical Lead):

- Mentored newer members of the team and junior developers.
- Pushed the team to adopt best practices such as code reviews, automated testing and infrastructure as code.
- Took responsibility for architectural decisions in multiple applications.

### June 2018 - March 2020

Endemol Shine Group (Full Stack Developer):

Skills Used: Javascript, Typescript, ReactJS, PHP, AWS, CDK, Amplify, Cypress, FFMPEG, MYSQL

- Lead developer on a Training Platform for external contractors. Written with Typescript and using serverless AWS services like Lambda, Dynamodb and Cognito. Automated tests were written using Cypress.
- Key developer of the Media Asset Management (MAM) system. Primarily written in PHP with a very distributed architecture. Consisted of:
  - Admin dashboard written with PHP and Javascript running on an EC2 server which facilitated

management of the vast content library, triggering of transcode jobs and publishing to various streaming services.

- Long running asynchronous jobs using AWS Batch and docker containers running on EC2 spot instances to transcode, stream and edit video files with FFMPEG.
- S3 and MySQL on RDS for storage.

## June 2017 - December 2017

Comprehensive Care (Full Stack Developer):

Skills Used: Javascript, Ruby on Rails, Angularjs, Jenkins, MS SQL

- Lead developer of an asthma treatment recommendation application. Written with Rails and Angularjs. I added unit tests to both front and back end and provisioned a Jenkins instance to automate running of the tests against pull requests and deployment to live environments which was previously done manually.
- Ran workgroups on the above to pass on knowledge of the approach to other team members with a view to implementing it across other applications.

## February 2016 - July 2016

UBS Investment Bank (Developer):

Skills Used: Javascript, BackboneJS, Grails, Java, Groovy, Gradle, Maven, Teamcity, Oracle SQL

Overview:

Developer as part of a cross-functional scrum team of 6. Our responsibilities were re-writing a Grails Gui Server to provide generic web service endpoints that were primarily interacted with through a new BackboneJS gui and maintaining and adding to a suite of Java applications as requested by the Business Analyst. All development teams also had the responsibility of maintaining and improving the build and release process of the suite of applications. All our work was done following agile processes with two week sprints, regular backlog grooming and utilising TDD.

## April 2013 - February 2016

UBS Investment Bank (Dev-Ops Engineer):

Skills Used: Gradle, Maven, Java, Groovy, Teamcity, Bash, RHEL, Javascript, Oracle SQL

Overview:

As part of a 5 person international team I was responsible for the build and deployment processes of around 10 applications, and maintenance and bug fixing of test environments and infrastructure. I was also tasked with development of monitoring and reporting tools such as a build radiator and a teamcity plugin to show statistics on why builds are stuck in the queue. We were also responsible for imparting knowledge of the build and deployment process onto developers, so that new projects would be started with the correct mindset of making testing and deployment automated, consistent and easy.

## November 2011 - March 2013

Betfair (QA automation engineer):

Skills Used: Groovy, Java, Selenium Webdriver, Maven, Jenkins

Overview:

Worked as part of a QA automation team delivering "black box" test packs for various UI and API components written in Java or Groovy and utilising Selenium Webdriver. Jenkins was used to automate the running of test packs on different environments.

## QUALIFICATIONS

- BSC Degree in Mathematics from Nottingham University
- A-Levels:
  - Maths – A
  - Further Maths – A
  - Chemistry – C
- GCSEs: 11 A\* to C