# Keith Cirkel
**Senior Application Engineer at GitHub**

## Contact

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## About

I love building the Web Platform! Systems engineer at GitHub. OSS Contributor.

**Website**                                          **GitHub**
https://keithcirkel.co.uk                            keithamus

# Work

## GitHub

Senior Application Engineer          2017-06-06 - Present          https://github.com

Working on the Web Systems team, delivering GitHub.com's JavaScript

## Beamly

Contract Javascript Consultant    2017-02-01 - 2017-06-02        https://www.beamly.com/

Lead delivery for new Max Factor websites across all regions, including US, South America and UK markets. Using Node.js & Handlebars with a Drupal backend. Using Chai & Cucumber for testing.

## Shark Finesse

Contract Javascript Consultant    2016-10-13 - 2017-01-31        http://www.sharkfinesse.com

Bought on for training role, upskilling existing team in Javascript, Node.js, AWS Lambda, TDD, Continuous Integration & Delivery, Agile & Scrum, Functional Programming. Porting existing ActionScript desktop app to Javascript using Electron, Node.js, Ramda & Sanctuary for Functional Programming, and Mocha & Chai for Unit Testing. Cultivated strong Agile workflow, strong TDD standards.

## Financial Times

Contract Javascript Consultant    2016-06-06 - 2016-10-13        https://www.ft.com

Assisted in migration of users to "FT Next" - the new iteration of FT.com. Primarily involved in migrating existing ft.com CDN from Akamai to Fastly, utilising heavy custom VCL code. Developed robust VCL test suite with continuous integration and deployment through Fastly deployment APIs, using CircleCI. Developed multiple front-end features including anonymous user marketing components, using Node.js, Handlebars, and FT's own "Origami" component framework.

## The Economist

Contract Javascript Consultant     2015-04-30 - 2016-06-03          https://www.economist.com

Bought on to train team on Node.js, React, TDD. Developed several microsites, assisted with architecture for overall web presence. Implemented continuous integration & delivery using semantic-release, Codeship, and Travis. Introduced strong unit test standards using Mocha & Chai. Architected tooling for painlessly provisioning new projects. Worked with team to cultivate strong open source standards, fostering a suite of open source React components, available at https://github.com/economist-components. Assisted in the interviewing and hiring of new candidates to join the existing team.

## Kingfisher PLC

Contract Javascript Consultant     2015-01-05 - 2015-04-30          http://www.diy.com

Worked on a greenfield backend API communicating with SAP, using Hapi. Assisted in original architecture design, introducing Redis, Varnish, OAuth2 technologies, as well as architecture design for NFC authentication on the client side. Implemented Mocha and Chai for testing, with code coverage checking with Istanbul.

## PhotoBox

Contract Javascript Consultant     2014-08-31 - 2014-11-30          https://www.photobox.com

Brought on to fold Paper-Shaker incubator code into PhotoBox. Worked with existing team to bring additional Node.js expertise to their existing stack - built on Node.js, Restify, MongoDB, Memcached. Introduced Mocha & Chai. Introduced JSON Schema as a way of validating endpoint responses in integration tests. Helped with migration of site to HTTPS.

## Autographer

Contract Javascript Consultant     2014-05-06 - 2014-08-31          http://www.autographer.com/

Developing the Autographer Desktop application for Windows and Mac. Replaced the position of the lead developer, inheriting the 22,000 line Backbone JS codebase. Worked extensively on addressing performance concerns and adding new features - introducing much simpler and more robust components with the Polymer framework. Worked with existing junior developers & testers to cultivate a good working process, including introducing TDD using Mocha, Sinon and Chai, functional testing with Mocha, Selenium and Node-WD, and Code Reviews via Github. Assisted in the interviewing and hiring of new candidates to join the existing team.

## BSkyB

Contract Javascript Consultant     2014-02-26 - 2014-05-06          http://news.sky.com/

Hired to lead the Sky News team to developing a new iteration of the website to Node.js, from Java. Implemented a scaleable and repeatable architecture using Node.JS, HAProxy and Redis automated through Chef. Introduced Mocha, Chai, Sinon to the team for more effective testing. Worked extensively training team members to use new ES6 technologies, such as Promises.

## British Gas

Contract Javascript Consultant     2013-11-01 - 2014-02-25          [http://www.britishgas.co.uk/](http://www.britishgas.co.uk/)

Developing a greenfield home automation product using ZigBee, web application and server side stack. Entered the project to introduce Node.JS to the team, develop the architecture and set up good working standards. Implemented a scalable architecture using Node.JS, Express, Redis, Cassandra, and MQTT for communicating with hardware. Consulted on hardware architecture and assisted in early developments. Guided the team through the ZigBee spec and implementing it across firmware and server side software. Cultivated strong working standards using enforced code reviews via Github pull requests and TDD using Mocha and Chai. Replicated the ideals through other Node.JS projects in the organisation.

## British Gas

Contract Javascript Consultant     2013-02-01 - 2013-10-01          [http://www.hivehome.com/](http://www.hivehome.com/)

Developing the HiveHome.com web application & brochure site. Web development using Node.JS, Express, Redis, Backbone JS, D3 for Data Visualisation and Mocha and Chai for TDD, WebDriver and Selenium for functional testing. Extensive use of external APIs including integration with existing Salesforce platform. Introduced MVC Server Side concepts to the team. Developed a complementary internal telemetry dashboard using Dashing framework with custom build widgets. Introduced strong working set up using enforced code reviews via Github pull requests.

## Electronic Arts

Contract Javascript Consultant     2012-08-01 - 2013-02-01          [https://www.ea.com](https://www.ea.com)

Working on the Origin Mobile & Social application, featured in Fifa 14 mobile version. Entered the project to improve the existing codebase and outline strong standards across the team. Mobile JavaScript development, using Backbone JS, with Zepto and Underscore, using Jasmine for TDD. Extensive work in touch events & mobile optimisation. Created build automation & tooling with Grunt JS, and developed acceptance testing using WebDriver, across desktop and mobile. Conceptualised mobile debugging toolsets for developers.

## LexisNexis

Contract Javascript Consultant     2012-08-01 - 2013-02-01          [http://www.lexisnexis.co.uk/](http://www.lexisnexis.co.uk/)

Porting a silverlight application to JavaScript, using Backbone JS, Raphael JS, with jQuery and Underscore. Built to be cross compatible, public facing application. Introduced very strong TDD standards using QUnit and Sinon for frontend, and BDD with Cucumber JS and WebDriverJS (Selenium). Introduced a good standard for Documentation Driven Development. Introduced GIT to the team, as well as using Jenkins for CI tasks. Assisted in hiring process for new candidates.

## BSkyB

Contract Javascript Consultant     2011-03-01 - 2012-01-01          [https://www.sky.com/](https://www.sky.com/)

Working on a internal project for BSkyB's call centres in an Agile software team using Javascript technologies including jQuery and Backbone JS. Entered the team to develop and expand on existing prototype. Implemented strong OOP architecture using Backbone JS with jQuery and Underscore. Use of Sass for CSS stylesheets. Utilizing latest HTML5 and CSS3 and Javascript technologies, including WebSockets with Socket.io. Introduced strong TDD standards using QUnit and Sinon for frontend. Improved End-to-End functional testing using JBehave and Behat. Created custom Open Source libraries fit-for-purpose including R.js (internationalization) and Jwerty (key binding). Contributed patches to Backbone JS core. Migrated team from SVN to GIT to help improve productivity. Assisted in hiring process for new candidates.

## Xcite Digital

Frontend Developer, Head of          2010-04-01 - 2011-03-01          [http://www.xcitedigital.com/](http://www.xcitedigital.com/)
Creative

Lead Frontend Developer, turned Head of Creative, working with many key clients. Developed and maintained large income client projects developed in Symfony 1.4, utilising jQuery for all frontend interactivity. Involved in key technical decisions, liaising with clients and suppliers and organising and managing other team members. Managed a series of virtual dedicated Linux servers, running Cherokee web server with MySQL and PHP. Introduced GIT to the team with no existing version control.

## BrightHue

Founder                              2007-08-01 - 2010-04-01

Founder of a Digital Agency. Developed and designed sites for large clients, utilising technologies such as PHP, MySQL, Javascript & jQuery. Managed and maintained virtual dedicated servers running a LAMP stack.

Freelancer                           2003-01-01 - 2007-01-01

Worked with small clients developing and maintaining websites utilising technologies such as PHP, MySQL, Javascript & MooFX.

# Volunteer

## CodeClub

Teacher                              2013-01-01 - Present          [https://codeclub.org.uk/](https://codeclub.org.uk/)

Mentoring 9-11 year old pupils on how to program, using the Scratch programming environment.