

Michael Allen

Contract Software Engineer

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An exceptional and respected professional developer with experience leading and architecting digital services for government projects. I advocate a clean, systematic and delivery-driven approach to Agile software development which helps cross-functional teams to pull together.

As a technical lead I take team improvement seriously, putting effort into upskilling through pair programming, mentoring and empowerment.

I am dedicated, flexible, and reliable, a valuable addition to any team.

Skills

I consider myself a T shaped developer, with hands-on experience in every area of Software Development. I also consider myself tool-agnostic, capable of rapidly becoming effective and productive in any language or toolchain.

Development

I prefer using: *Node.js, ES6, Scala, Python, Bash*

I am also skilled in: *Java, Ruby, CSS, HTML, C#, Objective C*

- I gently enforce best practice approach to testing and code quality through code reviews and pair programming
- I use targeted pair refactoring to work with members of a team to simultaneously clean up areas of the codebase that are in need of refactoring and teach good practices to the team
- I take a pragmatic approach to reuse of code, asking my developers to follow the Rule of 3, "rewrite it three times before writing a reusable solution"

Infrastructure

I prefer using: *Docker, Ansible, Nginx, AWS*

I am also skilled in: *Puppet, Heroku, Terraform, Azure*

- I encourage my teams to own their code through to live operation, owning their deployment pipeline or collaborating closely with Ops
- I look to automate repetitive tasks at every step of development, including automated build, deployment and testing
- I have real world experience building Continuous Integration pipelines
- I emphasise Devops culture on teams I lead, by supporting developers learning to build infrastructure automation and deployment code

Agile Practices

- I am skilled at teaching others how to approach writing user stories and training them in Agile development
- I have led Product Owners and Business Analysts in reshaping their Waterfall plan into a Backlog of user focused stories
- I have experience working on teams as a Scrum Master, mediating disputes, clearing up miscommunications, and finding solutions to blockers

Tools

- I work on Ubuntu and Mac OSX
- I use Docker to create development environments
- I have used VirtualBox and Vagrant for development environments
- I am fluent in Bash and Zsh
- I use Vim as my primary editor, fallback on IntelliJ and Atom if Vim doesn't suit

Experience

Core team

DAZN

via 101 Ways

(<https://www.101ways.com>)

Jul 2018 - Ongoing

In my time on the MyAccount team I demonstrated to DAZN that I had a knack for finding and fixing platform level issues. I was asked to join the Core team, who are responsible for DAZNs code delivery platform, to help them improve the platforms reliability.

In the Core team I have proposed and implemented changes that dramatically reduce integration failures, reduced merge-to-deploy cycle time from 50 mins to 3 mins, and improved developer feedback loops.

Technologies used: *Node.js, Drone CI, Webpack, AWS Lambda*

MyAccount team

DAZN

via 101 Ways

(<https://www.101ways.com>)

Mar 2018 - Jun 2018

4 months

As a Senior React Developer, I worked with a 4 developer team to build the MyAccount section of DAZNs rebuilt streaming platform. In building MyAccount I quickly got up to speed with modern JS frameworks the DAZN team used, MobX and MobX-state-tree for state management and React.

I took the lead on building a library that integrated MobX with React-router, allowing the teams in DAZN to benefit from both technologies. I treated this library as if it was an open source project, generously documenting it and gathering feedback from users in order to improve it. Three of the teams now use it in their apps.

Technologies used: *React, Mobx and Mobx-state-tree, Webpack, AWS Lambda*

One per Page

HM Courts and Tribunal

Service

via Digi2al

(<https://www.digi2al.com>)

Oct 2017 - Mar 2018

5 months

As Lead Maintainer, I built and released an open source library that makes building the "One question per page" style services easier.

I drew on my previous experience with Apply for Divorce and Register to Vote to solve the hard problems involved with One per Page transactions.

In developing this framework I put a lot of effort in to researching with real users, gathering their feedback to ensure that the interfaces I designed were easy to understand and flexible enough to customise to their need.

Technologies used: *Node.js, Express, Webpack, Nunjucks, Sass*

Sources:

One per Page (<https://github.com/hmcts/one-per-page>)

Look and Feel (<https://github.com/hmcts/look-and-feel>)

Contacts:

Jason Paige (<https://www.linkedin.com/in/jasonrichardpaige/>)

Apply for Divorce

HM Courts and Tribunal
Service

via Digi2al

(<https://www.digi2al.com>)

April 2016 - Aug 2017

1 year, 5 months

As Technical Lead, I led a team in the development of the Apply for Divorce service. Starting from discovery of the problem space through to release and iteration of a successful Private Beta, I shaped the technical design and pushed for constantly better software and software delivery.

In order to prevent blocking the team while we hired more Ops staff, I worked with a fellow Tech Lead in building and advocating for more reliable, automated, Infrastructure. Together we reinvigorated the programme's Ops team and brought more modern release practices to the development pipeline.

Technologies used: *Node.JS, Express, Webpack, Jinja / Nunjucks, Ansible*

Contacts:

Rhys Williams (<https://www.linkedin.com/in/rhys-williams-8062771/>)

Chris Neale (<https://www.linkedin.com/in/christopherneale/>)

Lighthouse support

Defence Science and
Technology Laboratory

via Digi2al

(<https://www.digi2al.com>)

Dec 2016 - Feb 2017

3 months

Ongoing support for the team in DSTL as they scaled out the Lighthouse project to more users.

Lighthouse

Defence Science and
Technology Laboratory

via Digi2al

(<https://www.digi2al.com>)

Jan 2016 - March 2016

3 months

As Infrastructure Engineer, I built an automated delivery pipeline that needed to deploy in to a highly secure environment that we had no access to.

Technologies used: *Ansible, Terraform, Vagrant, Python, Django, Jinja*

Sources:

Lighthouse code (<https://github.com/michaeldfallen/lighthouse>)

Infrastructure code (<https://github.com/michaeldfallen/lighthouse-builder>)

Contacts:

Roo Reynolds (<https://www.linkedin.com/in/rooreynolds/>)

Rich Brantingham (<https://www.linkedin.com/in/rich-brantingham-246061b3/>)

Sign your Mortgage

Land Registry
via Kainos

(<https://www.kainos.com>)

Feb 2014 - Sept 2015

1 year, 8 months

As Technical Lead, I led a 7 person team in the development of the Sign your Mortgage service. The team comprised of a mix of contractors and Civil Servants, who were in the process of learning new technologies and modernising the Land Registry's product delivery.

I closely mentored the Civil Servants in my team, through pair programming and workshops, to help them gain skill in the tech we were working in as ultimately they would own the service once complete.

I designed the system architecture iteratively based on discussions with the Product Owner and investigation of the requirements with Land Registry subject matter experts.

Technologies used: *Python, Puppet, Vagrant, AWS, Jinja, Flask*

Sources:

Dev VM (<https://github.com/LandRegistry/dev-vm>)

Borrower Frontend (<https://github.com/michaeldfallen/charges-borrower-frontend>)

Conveyancer Frontend (<https://github.com/michaeldfallen/charges-conveyancer-frontend>)

Case API (<https://github.com/michaeldfallen/charges-case-api>)

Deed API (<https://github.com/michaeldfallen/charges-deed-api>)

Scribe (<https://github.com/michaeldfallen/charges-scribe>)

Contacts:

Andrew Jackson (<https://www.linkedin.com/in/andrew-jackson-61b492/>)

Security Platform

Department for Work and
Pensions
via Kainos

(<https://www.kainos.com>)

Sept 2014 - Feb 2015

6 months

As Technical Lead, I worked closely with the DWP teams Product Owner and Technical Architects to rebuild their waterfall plan in to an iterative backlog.

Register to Vote

Government Digital Service

via Kainos

(<https://www.kainos.com>)

Feb 2012 - Aug 2014

2 years, 6 months

During the initial Alpha of the Register to Vote service I worked as a developer in building the service collaboratively with Design and Research.

After Alpha the team split in two, with half focusing on the backend service and the other half focusing on the frontend user journey. On that team I stepped in to act as a Lead Developer for the Frontend, designing the component architecture for the Frontend app and implementing a significant amount of the components.

I worked closely with the Designer and Researcher to ensure that the app held to the best experience possible for the user.

Technologies used: *Scala, Play Framework, Mustache*

Sources:

Register to Vote Service (<https://www.gov.uk/register-to-vote>)

IER Frontend source code (<https://github.com/michaeldfallen/ier-frontend>)

Contacts:

Martyn Inglis (<https://www.linkedin.com/in/martyn-inglis-144b57>)

Peter Herlihy (<https://www.linkedin.com/in/peterherlihy/>)

Qualifications

Certified Scrum Master, *ScrumAlliance*

Functional Programming in Scala, *École polytechnique fédérale de Lausanne*

Principles of Reactive Programming, *École polytechnique fédérale de Lausanne*

Computer Science, 1st class Masters degree, *Queens University Belfast*