



# Matt Weeks

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## Summary

Skilled software engineer with a MSc, programming for >15 years with >5 years of professional experience. A fast learner, strong problem solver that is focussed on incrementally delivering quality, tested, secure code with continuous integration / continuous deployment as well as pipelines and infrastructure as code where appropriate. Interests include automation, optimisation and visualisation of data.

## Work experience

### Assetz Capital - Senior Software Engineer

*August 2019 – February 2022*

While at Assetz, two of the most significant projects I have worked on are - migrating and updating our investor dashboard from scratch moving from Symfony (PHP) to React with TypeScript, and, creating a brand new marketplace so that our retail investors can trade their holdings at a discount of their choosing, this was a necessity during liquidity issues due to the Coronavirus pandemic, but is welcome functionality for the future. Both of these were developed in TypeScript with CI/CD to ensure consistent, reliable builds were deployed through to production.

As well as this I have had a number of other roles - I have been a champion of improving our CI/CD usage, significantly contributed to our progression framework ([progression.assetz.capital](#)), interviewed potential new hires for a number of different roles, participated in our 'workplace guild' working hard to 'make the tech team a great place to work', and planning a number of social events for the team.

In addition to the above I have also improved many processes, mentored other members of staff both within and external to my direct team, I am considered a highly valued member of the team being a subject matter expert for a number of areas, and produced an infographic for the 1 year anniversary of the above mentioned marketplace detailing transaction volumes and other interesting statistics.

**Technologies used: TypeScript, React, PostgreSQL, Knex.js, Bash Scripting, CSS, JS, HTML, Node, Python, AWS, TeamCity, Grafana**

### Barclaycard Payment Solutions (formerly The Logic Group) – Senior Software Engineer

*March 2017 – August 2019*

My main project was to migrate all of the applications and tech stacks that TLG offer from data centres to AWS, building the infrastructure required to launch a scalable and reliable cloud network using Terraform, Ruby, Chef and bash scripts. The main focus of this project was to provide one click deployments for all of the services used by the development teams including source control, identity management, build and test tools as well as an artifact store.

Whilst at this company I also worked with a number of other teams that focus on other projects/technologies including, development of a new REST API using Spring, full stack development using Angular with a Java backend, and being part of the support team that is responsible for answering technical queries about all products being run in production.

As well as my main role as a Senior Software Engineer I was also heavily involved in and / or run a number of other initiatives, including interviewing potential candidates, teaching Java to less technical employees, and a number of innovation projects pushing the boundaries of payments using virtual reality. In addition to this I was also the system admin of both our continuous integration and source control systems, and scrum master for my team and supported other teams with their agile journey.

**Technologies used: Terraform, Ruby, Bash Scripting, AWS, BitBucket, Jenkins, Chef, REST APIs, HTML, CSS, JS, Java, MongoDB, C#, Unity**

### CISCO Systems – Cloud Developer

*August 2013 – July 2014*

Moving to California and working for one of the biggest networking companies in the world for a year was a massive experience which I believe I took full advantage of. While there I worked within the 'Big Data & Cloud Computing' department developing applications to increase the visibility and ease of use of OpenStack networks. After fully developing the applications our team presented them to the community at the OpenStack Summit in Atlanta.

**Technologies used: Ruby, HTML, JS, CSS, D3.js, OpenStack**

## Education & Qualifications

### University of Kent – MSc Advanced Computer Science – Distinction 70%

*September 2015 – September 2016*

While completing my MSc degree I developed a number of interesting applications. The modules that I completed were 'Intelligent Systems', 'Internet of Things and Mobile Devices', 'Cloud and Green Computing', 'Development Frameworks', 'Computer Security' and 'Advanced Java for Programmers'.

For 'Internet of Things and Mobile Devices' I developed a modular automated heating and cooling system with MBED boards that used sensors to detect what devices were activated, what the current temperature was and then activate heating or cooling when required. All of this was able to be remotely activated so that the climate of the room could be set before you arrived there.

The most interesting project throughout this degree for me was my dissertation. I developed an application that used Twitter's API to access all the created tweets and create a visualisation based on different aspects of these tweets. E.g. generating a live updating heat map of the world to show where different tweets were generated. I was awarded a Distinction for both my dissertation and overall for the degree.

**Technologies used: Python, HTML, JS, CSS, D3.js, Chart.js, PostgreSQL, Twitter REST API**

### University of Kent – BSc Computer Science with a Year in Industry – First

*September 2011 – July 2015*

Throughout my undergraduate degree I enrolled in over twenty modules covering a vast range of topics from the business theory of starting new enterprises to the mathematics used at the hardware level of building computers, as well as a large amount of programming in many different languages including Python, JavaScript, Java, HTML5 and CSS. On top of the theory, learning and assessments, I also enrolled in a 'Computing in the Classroom' module where we had to teach in a school for one day a week as well as introduce the students to a new topic. As part of my degree I also spent a year working for Cisco Systems in California (USA). Throughout my degree I always did my best to attain the highest marks possible and managed to end up with a First Class Honours, including a First for my final year dissertation project, as well as many 100% marks in other modules.

### Poole Grammar School

*September 2008 – June 2011*

A Levels - Maths A, Computing A, Chemistry D

AS Further Maths - A

Free Standing Maths Qualification - A

10 GCSE's – 2 A\*s (Maths and Physics) 6 A's (including English) and 2 B's

### Other certifications

May 2020 - AWS Cloud Architect Nanodegree (Udacity)

Apr 2020 - Cloud DevOps Engineer Nanodegree (Udacity)

Nov 2019 - SAFe 4 Scrum Master (Scaled Agile)

Aug 2017 - Certified Scrum Master (Scrum Alliance)

Jul 2017 - Fire Marshal (British Red Cross)

Jun 2016 - Full Stack Web Developer Nanodegree (Udacity)

Oct 2014 - Front-End Web Developer Nanodegree (Udacity)

## Interests

One of my main interests is programming, I really enjoy designing and creating programs and websites and have done for many years. Currently I am able to write programs in many languages and am confident that I could use any language if required. Whilst at Barclaycard in my own time I have helped write an application for the local Fleet Pond Society, available on both Android and iOS, that shows the user where they are in relation to the pond as well as showing lots of useful information such as points of interest and trail routes. The app has been downloaded thousands of times and received great reviews. I am currently working on a unique puzzle game that will hopefully be released on mobile platforms in 2022 .

Another area I am passionate about is music. I play 4 different instruments, the saxophone (grade 8), clarinet (grade 7), piano (grade 5) and guitar (grade 3). While I was at school I was part of the Big Band, Wind Band and the Concert Band, which each had weekly rehearsals and at least one concert every term. I was also a member of the Dorset Youth Wind Orchestra for 4 years, and in my last year I was a First Clarinet, this involved monthly practices, residential courses and tours. In summer 2010 the group toured Europe playing at Lucerne in Switzerland as well as Germany and France.