



PERSONAL SUMMARY

I am an incredibly hard working individual with a vast amount of technical experience and a real passion for software development. I thoroughly enjoy working on and resolving difficult problems in the most elegant way possible. Beyond software development I am a proud dad and a football enthusiast.



WORK EXPERIENCE

Technical Expert

Asda Stores Limited, Leeds, UK

2019 - Present

Full Stack Developer

Edgetic Ltd, Leeds, UK

2018 - 2019

Edgetic is an exciting start-up researching the Kubernetes scheduler and how to improve its power efficiency through machine learning and big data. Whilst at Edgetic I worked on the core scheduling mechanism which built upon the extender model provided by Kubernetes and made use of agents to collate key data metrics. The scheduler was written using Golang and leveraged a number of technologies such as, Redis for caching calculations, InfluxDB for storing time based metrics, low-level performance tracing libraries e.g. eBPF, cgroups and Perf for collecting performance data and other tools. Whilst working on the design and implementation of the scheduler I also built a number of bespoke tools using Python (mainly NumPy and pandas) to help analyse the collected data and build 2nd/3rd order polynomial models for power efficiency analysis. I also helped to build a number of tools to help with research tasks, for example, I built a VM migration tool written in Python, a Golang tool to generate workloads using industry standard benchmarking tools e.g. HiBench, sysbench, TeraSort and many others.

Senior Software Engineer

Asda Stores Limited, Leeds, UK

2015 - 2017

My initial role within Asda required me to primarily work in the Mobile Apps space. After being with Asda for a year I was asked to extend my remit (due to the excellent work I had delivered) to also include general application development (mainly ASP.NET projects). During my time at Asda I worked on a multitude of colleague focused applications, each application would follow a similar design pattern – an Angular.JS Ionic application that communicated with a RESTful backend service (either ASP.NET Web API or Express.JS) which in turn communicated with a data store (either MSSQL or MongoDB). My other responsibilities with Asda included up-skilling colleagues in the use of CI/CD tooling (mainly Git, Jenkins, Ansible and OneOps), advocating and driving adoption of SCRUM and Lean principles and practices, recruiting new team members and tutoring junior members in the team. Whilst at Asda I also joined the Colleague Voice team to try and improve engagement between the Asda business and development teams.

Senior Software Engineer

X-Lab Ltd, Leeds, UK

2009 - 2015

During my time at X-Lab I graduated from junior developer to senior developer over a 6 year period. My main responsibility required me to work on a national solution for use by the NHS to transfer test requests and results between pathology labs utilising different LIMS (Laboratory Information Management System). A particular highlight of my time at X-Lab required me to design, prototype and build a replacement for the Microsoft BizTalk integration engine. To achieve this we built upon the ESB pattern, developing a number of bespoke components in C# and Apache Camel. My day to activities included developing, supporting and maintaining a large ASP.NET MVC codebase, defining, implementing and enhancing working practices - ranging from the introduction of Git, adopting Team



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Full Stack Developer

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EDUCATION

1st Class with Honors BSc in Computer Science

University of Leeds
2006 - 2009

3 B's at A-Level in English Language, English Literature and Sports Science

West Leeds Sixth Form College
2004 - 2006

10 A - B GCSE's in English, Maths, Science etc

West Leeds High School
1999 - 2004

INTERESTS

Being a dad

Playing with software projects

Football

Ballroom dancing

City and Octopus Deploy for CI/CD, implementing SCRUM, assisting in sales meetings, recruiting new team members, line managing other developers and tutoring junior members of the team. Whilst at X-Lab I also worked on a number of other systems such as Patient Pathway Manager (a Backbone.js SPA for use in Leeds Teaching Hospital wards to display patient information) and ScreenTalk (a multi locale ASP.NET MVC app to help women from ethnically diverse backgrounds better understand cervical cancer screening).



AWARDS

Certified Scrum Master	2016
Certified Lean Practitioner	2016
Certified Prince 2 Practitioner	2013



PROJECTS

Flutter - A React Native developers view of FLutter.
https://sykomaniac.github.io/posts/WIP_flutter/

Java GraphQL - An up to date walkthrough of using Spring Boot to work with GraphQL and MongoDB.
https://sykomaniac.github.io/posts/20190531_graphql/

Me - A simple responsive Hugo setup for my personal site.
<https://github.com/aerohub/hugo-me-theme>



SKILLS & PROFICIENCY

Backend languages (.NET, Java, Python, Golang & Node.js)



Frontend languages (React, Angular.js, Knockout.js, Backbone.js, Ember.js)



Mobile Development languages (React Native, Flutter)



Web technologies (CSS3, HTML5, Sass, Less, Stylus etc)



RDBMS (MSSQL, MariaDB etc)



NoSQL (MongoDB, Cassandra, InfluxDB etc)



Containerisation tooling (Docker, Docker Compose, Kubernetes, Helm, Draft, etc)



SCM, CI & CD tooling (Git, Jenkins, Ansible, Vagrant etc)



SDLC (Scrum, Kanban, Lean, Prince 2)

