

Alexander Williamson

Systems Developer

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Competent and driven individual with a can-do attitude, a thirst for knowledge and a passion for technology. I enjoy using my positivity, approachability and technical knowledge in exciting and challenging roles.

January 2020 **Rest Less, London, UK**

Lead Full Stack Developer

Responsible for architecture, feature delivery, performance and uptime of our public websites, APIs, stacks and tools.

Full stack development – Node.js, API Gateway with Lambda, SSGs with Gatsby & Next.js

All infrastructure captured as code using Terraform and AWS CDK.

Guided teams through complex performance investigations. Removed performance and scaling roadblocks, leading and iterating squads towards measurably cleaner, simpler and more performant architectures.

Self starter - introduced Grafana, Metabase, AWS CloudWatch, statsd, CWAgent log metric shipping on EC2 boxes and ECS sidecars.

Added continuous production Lighthouse monitoring reducing performance regressions.

Built and maintained Redis clusters, AWS RDS MySQL clusters and Aurora Serverless clusters in private VPCs accessed via bastion hosts.

Introduced PagerDuty and on-call rotas. Alerts defined in code and deployed via CDK.

S3 datalake, Redshift data warehouse, endpoints for data collection and ETL data ingress.

Rapid deployments using Bitbucket pipelines, docker, CDK, Terraform and Cloudflare.

Introduced spaces for whiteboarding and knowledge transfer.

Mentoring. Fostered *fika* daily coffee chats. Championed a fail-fast, fail-safe culture.

June 2017 to July 2019 **Trainline, London, UK**

Senior Software Engineer (contractor, renewed)

Developed and maintained core E-Commerce services & components.

.NET Core & Framework, AWS, Microsoft SQL Server, T-SQL, dapper.

Parallel testing in NUnit, xUnit, Specflow, Ruby, Powershell.

Service and platform performance testing ensuring scalability and survivability JMeter, New Relic, Kibana, PagerDuty, Microsoft Azure AppInsights.

Encouraging devops; fostering a healthy monitoring and alerting culture.

May 2016 to May 2017 **ASOS, London, UK**

Senior Software Engineer (contractor, renewed)

WebApi, Sitecore, Azure Table & Blob storage, Redis.

Deployments via TeamCity, Powershell, xcopy and Octopus Deploy.

Saucelabs and Selenium for mobile web and app testing.

Writing and maintaining T-SQL scripts. ETL data migrations.

April 2014 to May 2016 **JustEat, London, UK**

Senior Engineer / Team Lead

Responsible and accountable for security, scalability and sustainability of components that make up the JustEat order journey plus other apps & stacks.

Full stack developer, crafting resilient elastic applications in Amazon Web Services.

EC2, Lambda, AutoScaling, ELBs, S3, EBS, RDS, Dynamodb, VPCs, Route53 etc.

End to end devops: developing, testing, CI, monitoring, alerting and reporting.

Infrastructure as code, creating golden AMI images in Powershell and Ruby.

In-memory testing using OWIN, FakeServer, IISExpress, Protractor stubs.

Monitoring and alerting using Graphite, Grafana, statsd, PagerDuty, ELK stack.

December 2012 to March 2014 **EasyJet Airline Company, Luton, UK**

.NET Developer

Maintained existing and created new stand-alone services and full-stack apps.

Azure, C#, WebApi, Knockout, Less, MVC/Razor, jQuery, T-SQL, Powershell.

Test-first approach using NUnit, xUnit, SpecFlow, FakeItEasy, Ruby, Watir.

Maintained production services, debugged live issues.

Fiddler, Microsoft Netmon, Log4Net, Azure, Custom Performance Counters.

Technical Skills

Node.js

excellent developer knowledge

.NET Core, .NET Framework, .NET Standard

excellent developer knowledge

ASP.NET, WebAPI, OWIN

excellent developer knowledge

React, Knockout, jQuery etc.

strong developer knowledge

SQL, migrations

strong developer knowledge

NoSQL, DynamoDB, MongoDB, Redis

strong developer knowledge

Various unit & acceptance test frameworks

excellent knowledge

Ruby, Watir, Ruby Gems, Rubymine

good working knowledge

Infrastructure Skills

Amazon Web Services

excellent working knowledge

previously AWS Certified Developer

Terraform

strong developer knowledge

Microsoft Azure

strong working knowledge

Microsoft Server

strong working knowledge

previously MCITP certified

Microsoft SQL Server Enterprise

strong working knowledge

Grafite, Grafana, StatsD

strong working knowledge

Elasticsearch, Kibana, Logstash

strong working knowledge

CI, CD, Github, TeamCity

excellent working knowledge

BSc Hons. Internet Computing De Montfort University, Leicester

First Class Hons. (2004-2008)

MySQL, PHP, HTML, CSS, CAN Networks,

SMS, Bluetooth, SOAP/XML, SDL, GLUT,

OpenGL, Win32 APIs, VB.NET, Java, JSP etc.

Included a placement year working for

Novartis Animal Health, Basel, Switzerland

Interests

Several ongoing personal coding

projects, house renovations, table

foosball, travelling, hiking, swimming,

sailing, motorsports, board games,

video games, Texas Holdem poker etc.