

Profile

A passionate and capable developer with experience of a wide range of programming styles and technologies. I have written code for mobile, the desktop and the full web stack, across the full software development lifecycle. I am especially interested in functional programming using F#, having learnt the power and simplicity of the concepts, and have written sizable internal projects with the language. Client side experience includes writing JavaScript and typescript code using React JS, as well as F# using Fable and the SAFE stack. A regular attendee, and occasional presenter, of technical talks on various topics.

Skills

Back End - AKKA.NET, Apache Spark, ASP.NET MVC, ASP.NET Web API, ASP.NET Core, ASP.NET WebForms, Azure Data Factory, Azure SQL, Azure SQL Data Warehouse, Azure HdInsights, AWS DynamoDB, AWS EC2, AWS Lambda, AWS Kinesis, AWS Redshift, AWS SQS, AWS S3, C++, C#, .NET Core, .NET Framework, Entity Framework, EF Core, F#, LINQ, neo4j, node.js, python, SAFE Stack, T-SQL, VB.NET

Devops - Azure Container Registry, Azure Resource Manager, AWS Cloudformation, AWS ECR, AWS ECS, AWS Opsworks, bash scripting, Cake, Chef, Continuous integration, Docker, git, Octopus Deploy, Packer, Powershell, terraform, TeamCity, Windows Containers

Front End - Angular Js, Bootstrap, CSS, D3, ES6 Promises, Elmish, Fable, GatsbyJS, GraphQL, grunt, HTML, javascript, jQuery, KnockoutJs, LESS, react.js, SAFE Stack, Typescript

Other - Azure Devops, Apache Cordova (Phone Gap), Ionic framework, JIRA, LaTeX, Resharper, RESTful webservices, R, Source safe, SQL Server Management Studio, TFS, Visual studio, XSLT, XML

Testing - jasmine, karma, MoQ, MSTest, NUnit, Puppeteer, SpecFlow, VSTest, xUnit

Experience

Parmenion - *Software Developer (contract, 3 extensions)*

2018 - 2020 (1y, 7m)

- Extension of D2C services of investment platform and maintenance of existing legacy systems, including most Microsoft technologies of the last 10 years.
- Part of small group that led the migration of ~70 .Net framework and core services to windows containers.
- Developed internal tools, mostly in own time, for speeding up local development processes and project dependency analysis.

Scott Logic - *Software Engineer*

2017 - 2018 (11m)

- Designed and implemented ETL pipeline on Azure using Data Factory V2. Implemented data warehouse reporting solution using SQL Datawarehouse and PowerBI.
- Wrote AWS infrastructure code for data engineering project using Terraform. Deployed a wide range of resources such as Kinesis, EC2 VMs and ECS containers.
- Developed REST API for automated download and analysis of github repositories using .Net Core running F# on ubuntu.
- Introduced SpecFlow into project to increase efficiency of test development and provide living documentation of automated tests.
- Ran internal study group for advancing company knowledge on cloud computing.

Abide Financial - *Software Engineer*

2015 - 2017 (2y, 7m)

- Developed code to enrich and validate financial transaction data using C# and T-SQL, using 'best practices' and TDD where possible.
- Developed AWS lambda functions using python and node.js for environment automation. Tasks including database setup and automated resource spin up/down.
- Implemented CI and deployment solutions for AWS resources including EC2 and Lambda. This required extensive use of Teamcity and Octopus deploy.
- Created NuGet packages to promote 'best practices' in build and deployment automation.
- Wrote Powershell scripts for file archival and other Windows Server administration tasks. Automated configuration of log aggregation agents on production systems.
- Spread 'best practices' in methods and technologies through organising department wide, weekly workshops.

FundsLibrary - *Junior Developer*

2014 - 2015 (1y)

Maintained the Fundslibrary website in an agile environment. Practiced modern software development practices including TDD, CI and SOLID practices. Backend development involved C#, ASP.NET MVC and SQL Server to create web services and sites. Client side development used typescript, LESS and libraries such as KnockoutJs and jQuery.

Toplevel Computing - *Graduate Developer*

2013 - 2014 (1y)

Maintained proprietary web development product and extended behaviour to customer specifications. Role involved writing specifications, designs and performing the implementation of code changes.

Education

The University of Exeter	2010 - 2012
Phd Physics: The electrical properties of cell membranes	Degree Not Attained
The University of Exeter	2007 - 2010
BSc. (Hons.) Mathematics and Physics	2:1
Queen Mary's College	2005 - 2007
A Levels	Mathematics (A), Physics (B), Electronics (B), BTEC Music Practice (Distinction). AS Level: Further Mathematics AS (C)