

# Mark Gascoyne

Polyglot Software Engineer

GitHub: <https://github.com/mgazza>  
LinkedIn: <https://www.linkedin.com/in/markgascoyne>  
Stack Overflow:  
<https://stackoverflow.com/users/245052/mark>  
  
Web: <https://www.markgascoyne.co.uk>  
Email: [contact@markgascoyne.co.uk](mailto:contact@markgascoyne.co.uk)  
Phone: 07951 553010

## About Me



Software Engineer Bsc(Hons) with a wealth of knowledge and experience utilising software technologies and design patterns. I have proven time and again that I am creative, dependable, resourceful and self motivated. I always have a solution or know a way to obtain and apply it to any given problem.

## Skills

kubernetes go lang helm flux skaffold kustomize github git circle-ci vuejs swagger rest dotnet sql-server csharp vb dotnet z-wave google-cloud docker linux cassandra entity-framework modbus scala nodejs tfs signalR redis azure aws mvc java spring jquery knockout backbone highcharts ssas soap ssis kafka confluent jira bitbucket postgresql react terraform k3s confluent-cloud graphql

## Experience

### Dae.mn/ Kultralab

Senior Software Engineer  
(Contract)

*Jun 2021 - Present*

- Delivery of infrastructure as code and declarative infrastructure maintained using gitops.
- Delivery of ci-cd pipelines.
- Refining the backlog, gathering requirements.
- Developing the supporting services

Skills

aws postgresql go lang skaffold kustomize flux kubernetes terraform k3s react graphql docker bitbucket jira confluent

### Ve Global

Software Consultant

*Jul 2020 - Jun 2021*

- Restructuring of Ve's infrastructure and technology to save costs and create a more manageable environment.
- Introduce and setup local development using kustomise/skaffold/minikube.
- Rollout of GitOps to improve deployment pipelines.
- Training developers to develop best in class microservices.

Skills

azure kubernetes skaffold kustomize vuejs kafka confluent-cloud go lang docker flux

Thermeon  
Worldwide Ltd

Software Engineer	
<i>Jan 2018 - Jul 2020</i>	
	<ul style="list-style-type: none"> <li>• Undertake the companies first leap into Kubernetes.</li> <li>• Working with all teams to introduce agile way of working.</li> <li>• Work with the EU development team in an agile methodology to produce the single sign-on solution hosted in kubernetes and written in golang.</li> <li>• Work with the US/EU teams to develop and deliver the PCI encryption micro service hosted in kubernetes and written in golang.</li> <li>• Work with development and infrastructure teams to introduce Git-Ops using Weaveworks and various other Kubernetes tech (cert-manager, external-dns, sealed-secrets).</li> <li>• Produce a Horizontal Pod Autoscaler for Kubernetes which uses pod readiness rather than metrics for scaling.</li> <li>• Produce client facing website for booking rentals.</li> </ul>
Skills	github circle-ci kubernetes golang helm flux vuejs google-cloud docker linux cassandra swagger rest

## Utilitywise PLC

Senior Software Engineer	
<i>Apr 2015 - Jan 2018</i>	
	<ul style="list-style-type: none"> <li>• Development of the Wiselife IoT product</li> <li>• Development of supporting services</li> <li>• Development and management of data services</li> </ul>
Skills	entity-framework sql-server z-wave modbus cassandra scala dotnet entity-framework nodejs docker linux tfs signalR redis git azure aws

## t-mac Technologies Ltd

Software Engineer	
<i>Apr 2012 - Apr 2015</i>	
	<ul style="list-style-type: none"> <li>• Development of energy dashboards for clients</li> <li>• Development of tmac energy analytics platform</li> <li>• Development of data ingestion and processing services</li> </ul>
Skills	csharp mvc java spring jquery entity-framework knockout backbone highcharts ssas

## EnServe Group Limited

Software Engineer	
<i>Sep 2010 - Apr 2012</i>	
	<ul style="list-style-type: none"> <li>• Development and maintenance of Job Track Enterprise (JTE) for H2O Water Services Ltd and Thames Water /Veolia Water.</li> <li>• Full involvement in maintenance and in ongoing development of the JTE system for H2O, including Smartclient application, website, web services, mobile devices database and SSIS packages.</li> <li>• Full involvement in development of the JTE system for Thames Water in the run-up to live deployment, including all of the above elements plus integration with the IBM Websphere messaging system for near real-time integration with the Insight TMA system.</li> <li>• Full involvement in interpretation of new requirements for both JTE systems in consultation with others both internal and external, technical and non-technical.</li> </ul>
Skills	soap csharp sql-server vbdotnet ssis

## Cse-Healthcare Systems Ltd

Student Software Engineer	
<i>Jun 2008 - Sep 2009</i>	
	<ul style="list-style-type: none"> <li>• Maintaining product specialistâ€™s demo laptop builds of RiO</li> <li>• Development / Maintenance of internal tools used by all areas of CSE-healthcare systems</li> <li>• Working as part of the live service team investigating software issues. Issuing hot fixes and releases.</li> <li>• Working as part of the testing team testing software modules. Identifying code paths and testing plans.</li> </ul>

- Design and created the replacement correspondence reference system which is used company wide (CSE-Global(UK) Ltd).
- Design and created a testing automation framework. I created a framework that automated web pages from the user point of view. I made the framework very flexible and reusable and created documentation that allowed a novice to quickly create tests and reuse code that has previously been created.

Skills    csharp sql-server ssis

## Education

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Sheffield Hallam University

BSc(Hons) Software Engineering

2006 - 2010