

# Mark Gascoyne

Polyglot Software Engineer

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## 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 Golang Helm Flux Skaffold Kustomize GitHub Git Circle CI Vue js Swagger Rest .Net Sql Server CSharp VB.Net Z Wave  
Google Cloud Docker Linux Cassandra Entity Framework Modbus Scala Node js TFS Signalr Redis Azure AWS MVC Java Spring  
JQuery Knockout Backbone js Highcharts Microsoft SSAS Soap SQL Server Integration Services Apache Kafka Confluence Jira  
BitBucket PostgreSQL React Terraform K3S Confluent Cloud GraphQL

## Experience

### Dae.mn/ Kultralab

Senior Software Engineer  
(Contract)

*Jun 2021 - present*

Working for Dae.mn’s client Kultralab.

Kultralab are developing an app to revolutionise the workplace.

Responsibilities:

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

Skills

AWS PostgreSQL Golang Skaffold Kustomize Flux Kubernetes Terraform K3S React GraphQL  
Docker BitBucket Jira Confluence

### Ve Global

Software Consultant

*Jul 2020 - Jun 2021*

Projects:

- 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 Vue js Apache Kafka Confluent Cloud Golang Docker Flux

Thermeon  
Worldwide

Software Engineer

Jan 2018 - Jul 2020

At Thermeon I have worked closely with both the development and infrastructure teams which are spread all over the world. I have both engineered micro services written in golang and delivered them via the Google Kubernetes Engine. I have introduced operations via pull request to deliver continuous deployment, maintaining stability.

Projects I have undertaken include:

- Undertake the companies first leap into Kubernetes.
- Working with all teams to introduce agile way of working.
- Work with the EU development team in an agile methodology to produce the single sign-on solution hosted in kubernetes and written in golang.
- Work with the US/EU teams to develop and deliver the PCI encryption micro service hosted in kubernetes and written in golang.
- Work with development and infrastructure teams to introduce Git-Ops using Weaveworks and various other Kubernetes tech (cert-manager, external-dns, sealed-secrets).
- Producing a Horizontal Pod Autoscaler for Kubernetes which uses pod readiness rather than metrics for scaling.
- Produced client facing website for booking rentals.

Skills

GitHub Circle CI Kubernetes Golang Helm Flux Vue js Google Cloud Docker Linux Cassandra Swagger Rest

Utilitywise

Senior Software Engineer

Apr 2015 - Jan 2018

Working as part of a team to deliver control and automation to the Wiselife IoT product.

Skills

Entity Framework Sql Server Z Wave Modbus Cassandra Scala .Net Entity Framework Node js Docker Linux TFS Signalr Redis Git Azure AWS

t-mac Technologies  
Ltd

Software Engineer

Apr 2012 - Apr 2015

Web applications developer working in a fully agile environment, developing monitoring, controls and analysis software used throughout the energy sector. I have gathered requirements, designed, developed and delivered bespoke software solutions for some of the big names in energy industry.

Skills

CSharp MVC Java Spring JQuery Entity Framework Knockout Backbone js Highcharts Microsoft SSAS

EnServe Group  
Limited

Software Engineer

Sep 2010 - Apr 2012

Development and maintenance of Job Track Enterprise (JTE) for H2O Water Services Ltd and Thames Water /Veolia Water.

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.

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.

Full involvement in interpretation of new requirements for both JTE systems in consultation with others both internal and external, technical and non-technical.

Under the direction of Richard Marr (Senior Lead Developer).

Skills

Soap CSharp Sql Server VB.Net SQL Server Integration Services

CSE Healthcare  
Systems

Key Responsibilities:

- Maintaining product specialist’s demo laptop builds of RiO

Student Software Engineer

*Jun 2008 - Sep 2009*

- Development / Maintenance of internal tools used by all areas of CSE-healthcare systems
- Working as part of the live service team investigating software issues. Issuing hot fixes and releases.
- Working as part of the testing team testing software modules. Identifying code paths and testing plans. Key Deliverables:
- Designed and created the replacement correspondence reference system which is used company wide (CSE-Global(UK) Ltd)
- Designed 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 SQL Server Integration Services

## Education

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Sheffield Hallam University

BSc(Hons) Software Engineering

2006 - 2010