

# Mark Gascoyne

Polyglot Software Engineer

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## About Me



As a Software Engineer with a Bachelor of Science degree (BSc Hons), I bring a wealth of knowledge and extensive experience in harnessing software technologies and design patterns. My track record demonstrates my creativity, reliability, resourcefulness, and self-motivation. I consistently offer solutions and possess the ability to find effective approaches to address 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 confluence jira bitbucket postgresql react terraform k3s confluent-cloud graphql argocd gitlab

## Experience

### Vitrifi

Network Services Lead

*Jun 2023 - Present*

- Providing technical expertise to help design scalable and maintainable software architectures.
- Reviewing code submissions from team members to ensure adherence to coding standards, best practices, and quality.
- Assigning tasks and responsibilities to team members based on their skills and project requirements.
- Collaborating with product managers to create project plans, set milestones, and estimate timelines.
- Monitoring the team's progress, identifying bottlenecks, and taking corrective actions to ensure project goals are met.
- Supporting team members in their professional growth, helping them acquire new skills, and providing guidance on career paths.
- Promoting knowledge sharing within the team to foster a culture of learning and continuous improvement.
- Facilitating communication within the team, ensuring everyone is aligned on project goals and tasks.
- Representing the team in meetings with stakeholders, providing updates on project status and addressing concerns.
- Ensuring that appropriate testing processes are followed and that the software meets quality standards.
- Prioritizing and managing bug reports, collaborating with the team to resolve issues efficiently.

- Addressing conflicts or issues within the team, promoting a healthy and productive work environment.
- Escalating critical issues to upper management when necessary.
- Participating in the recruitment process, conducting interviews, and helping to build a strong team.
- Fostering a collaborative and inclusive team culture that encourages creativity and innovation.
- Ensuring that technical documentation is up to date and readily accessible to team members.
- Identifying potential risks to project delivery and taking proactive measures to mitigate them.
- Keeping up-to-date with industry trends and evaluating new technologies that can improve the team's efficiency and the quality of the software.
- Managing the team's budget and resources effectively, ensuring that resources are allocated optimally to meet project goals.
- Conducting performance reviews and providing constructive feedback to team members.
- Ensuring that the team follows company policies, including security and compliance standards.
- Identifying areas where processes and practices can be improved and implementing changes to enhance team productivity and software quality.

Skills      aws golang kustomize argocd k3s kubernetes docker gitlab

Gitops Consultant (Contract)

*Dec 2022 - Jun 2023*

- Align all DevOps teams with the unified GitOps deployment strategy.
- Work to create a unified GitOps deployment strategy for DevOps.
- Implement a unified GitOps deployment for all DevOps teams.
- Assist team members with use of unified GitOps deployments.
- Assist team members with GitOps local development environment.
- Assist team members with transition between manifest management tooling.
- Assist in creating a common shared understanding of all team’s GitOps within the SRE function.

Skills      aws golang kustomize argocd flux k3s kubernetes docker gitlab

Senior Go Developer  
(Contract)

*Jun 2022 - Dec 2022*

- Develop CI/CD pipelines in with Gitlab CI
- Develop CNE kubernetes operator

Skills      aws golang kustomize argocd flux k3s kubernetes docker gitlab

Dae.mn/ Kultralab

Senior Software Engineer  
(Contract)

*Jun 2021 - Jun 2022*

- 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 golang skaffold kustomize flux kubernetes terraform k3s react graphql docker  
bitbucket jira confluence

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 golang docker flux

## Thermeon Worldwide Ltd

Software Engineer

Jan 2018 - Jul 2020

- 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).
- Produce a Horizontal Pod Autoscaler for Kubernetes which uses pod readiness rather than metrics for scaling.
- Produce client facing website for booking rentals.

Skills      github circle-ci kubernetes golang helm flux vuejs google-cloud docker linux cassandra swagger rest

## Utilitywise PLC

Senior Software Engineer

Apr 2015 - Jan 2018

- Development of the Wiselife IoT product
- Development of supporting services
- Development and management of data services

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

Apr 2012 - Apr 2015

- Designed and developed customized energy dashboards for diverse clients, enhancing data visualization and analysis capabilities.
- Spearheaded the creation of the tmac energy analytics platform, optimizing energy consumption insights for stakeholders.
- Engineered data ingestion and processing services, streamlining data handling and analysis workflows for improved efficiency.

Skills      csharp mvc java spring jquery entity-framework knockout backbone highcharts 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.

Skills      soap csharp sql-server vbdotnet ssis

## Cse-Healthcare

# Systems Ltd

Student Software Engineer

*Jun 2008 - Sep 2009*

- Maintaining product specialist’s demo laptop builds of RiO
- 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.
- 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