

Alisdair Douglas MacLeod

cv@alisdairmacleod.co.uk

Personal Summary

I am a software engineer with experience working in a range of different industries. I have good interpersonal skills and can communicate my ideas effectively to large groups of people. I have a friendly and laid back approach to work and life. My adaptability and eagerness to acquire new skills makes me a suitable candidate for a variety of roles.

Professional Summary

Development: Git, GitHub, GitLab, CI/CD, Agile
Deployment: Kubernetes, Docker, Linux, BSD, GCP, AWS
Languages: Go, Shell, Python, Perl, JavaScript
Databases: SQLite, NATS, PostgreSQL, MySQL/MariaDB

Employment History

TestKube

Staff Engineer: *April 2025 - Present*

Vitrifi

Principal Software Engineer: *January 2025 - April 2025*

- Conducted business wide database review, presenting recommendations for consolidation and migrations to reduce costs and improve reliability.
- Represented the company at TMForum Accelerate, participating in the Autonomous Networking stream.
- Participated in an Architectural Steering Group to aid the business in making appropriate technical decisions and feeding back on the viability of suggested actions.

Head of Network Software: *June 2023 - December 2024*

- Migrated internal microservices to smaller number of choreographed event driven services with clearer boundaries, reducing the reliance on external orchestrators.
- Created and lead the data governance group to implement Data Mesh concepts across the business enabling more dynamic data access to provide useful insights to customers.
- Created open source software policy and open source policy office to ensure compliance with open source licensing and encourage open source contributions opening up new ways for the business to interact with the professional community.
- Represented the company at Mobile World Congress in Barcelona.

Lead Software Developer: *March 2022 - May 2023*

- Hired and trained a new development team of network specialists.
- Introduced code guidelines and software development processes improving the maintainability of code.
- Used Kubernetes operators to simplify configuration and deployment of systems.
- Use GitOps deployment strategies and built test and deployment automation to enable faster shipping of new features.

Restorepoint

Lead Software Developer: *June 2021 - March 2022*

- Administered development infrastructure and CI/CD pipelines.
- Grew the development team through recruitment and mentoring.

Senior Software Developer: *February 2020 - May 2021*

- Used RPM builds to standardise software deployments to customers.
- Refactored existing legacy Perl scripts with native Go implementations. Including converting BPF filters to native Go bindings for network discovery.
- Replaced JSON-RPC interface with a REST API documented using OpenAPI.
- Improved system stability using race detection and adding concurrency guards such as mutexes or improved channel implementations.

Secarma

Software Developer: *July 2019 - February 2020*

Elected Technologies

Senior Developer: *August 2015 - June 2019*

- Designed and implemented all aspects of a re-engineering of the existing PHP application into a React-Redux SPA with a Go and Python API deployed to Google App Engine.
- Mentored and managed Apprentice and Junior Developers.
- Encouraged the use of Test Driven Development, Pair Programming, and Code Reviews.

CGI

Technical Consultant: *April 2015 - July 2015*

- Developed a cross-platform mobile password management application using Xamarin.

BAE Systems Applied Intelligence

Software Developer: *November 2014 - February 2015*

- Researched the viability of Rust as an alternative to systems programming languages.

GCHQ (Government Communications Headquarters)

Higher Apprentice: *September 2012 - September 2014*

- Lead development of a C++ tool to convert between L2 protocols at 10Gbps.
- Joined a team creating internal web applications.

Advanced Apprentice: *September 2011 - September 2012*

- Worked as part of a team deploying data centre networks.
- Working on reverse engineering hardware encryption technologies.

Education

Open University: *2015 - 2017*

BSc (Hons) Computing and IT Practice

De Montfort University: *2012 - 2014*

FdSc Communication Systems, Security and Computing