Alisdair Douglas MacLeod
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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

Vitrifi

Principal Software Engineer: *January 2025 - Present*

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 discussing the future of the industry and how the business can align to provide value to customers and partners.

Lead Software Developer: *March 2022 - May 2023*

- Built a development team of network specialists through hiring and internal training.
- Implemented code guidelines and software development processes reducing the onboarding time for new engineers and improving the maintainability of code.
- Promoted use of Kubernetes operators to simplify configuration and deployment of systems reducing the time to deploy new customer instances.
- Pushed for use of GitOps deployment strategies and built test and deployment automation enabling faster shipping of new features for customers.

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*

- Replaced update system with standard RPM builds and Linux package deployment simplifying the

previous custom application updater that caused many customer issues.

- Rewrote legacy Perl automation scripts and CLI tooling in Go unifying the development environment and enabling faster onboarding of new developers.
- Converted Perl BPF to native Go BPF bindings for network discovery reducing time to discover new customer devices.
- Refactored legacy JSON-RPC into a REST API enabling enhanced customer integrations with the system.
- Added race detection to development builds and removed detected race conditions by guarding with mutex locks or rewriting with channels as appropriate this massively improved the stability of the system for end users.

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