

Euan Cowie

Software Engineer

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PROFESSIONAL SUMMARY

A British and Swiss national with expertise in software engineering and systems architecture, I have delivered scalable solutions across startups, enterprises, and academic research. From hybrid cloud systems for mission-critical deployments to service-oriented architectures for genomic analysis, I excel in solving complex challenges, leading DevOps transformations, and implementing secure, modern infrastructure.

PROFESSIONAL EXPERIENCE

Software Engineer 2023 - Present

Zelim Ltd

Edinburgh, Scotland

- Joined as a Software Engineer on the ZOE product; transitioned to architect and manage an installation project in a colocation center (hosts and networking equipment)
- Oversaw vendor relationships, purchasing, hardware configuration, and built solutions providing engineers with pre-baked environments and in-cloud deployments for customers
- Developed a hybrid cloud solution to monitor, update, and support both cloud and on-premise ZOE deployments
- As DevOps lead, architected pipelines and processes for the Software and Data teams; designed and oversaw product deployments on oil rigs, offshore wind farms, and large cruise ships

Technologies: Hybrid Cloud, DevOps, Infrastructure, Networking, Deployment Automation

Software Engineer 2021 - 2023

Omecu Ltd

Edinburgh, Scotland

- Contributed to a project commercialising near-instant genome-wide association studies (GWAS) from the University of Edinburgh spin-out
- Architected a scalable, interactive system for querying genetic data
- Migrated from a monolithic to a service-oriented architecture using CUDA, MKL, gRPC, and Apache Arrow

Technologies: CUDA, MKL, gRPC, Apache Arrow, Genomics, Service-Oriented Architecture

Software Engineer 2015 - 2017

Avaloq Innovation Ltd

Edinburgh, Scotland

- Led analysis, design, and development for French Tax Law compliance; collaborated with product teams, customers, and business analysts
- Contributed to EU Tax Localisation and Reporting projects within the Technical Framework
- Delivered workshops and internal presentations as a subject matter expert
- Served as module lead: oversaw code reviews, designed/implemented new API services, and supported the transition to a Spring/Kubernetes microservice architecture for scalable, efficient components

Technologies: Spring, Kubernetes, Microservices, API Development, Tax Compliance Systems

EDUCATION

Graduate Diploma in Philosophy 2019 - 2020

University of St Andrews

Scotland

BSc First Class (Hons) in Computing Science 2012 - 2015

Newcastle University

- First Class Honours

TECHNICAL SKILLS

Infrastructure

- Hybrid Cloud
- DevOps
- Kubernetes
- Docker
- CI/CD Pipelines
- Infrastructure as Code

Networking and Security

- Network Architecture
- Security Implementation
- Vendor Management
- Hardware Configuration

Software Testing

- Test Automation
- Quality Assurance
- Performance Testing
- Integration Testing

Technical Leadership

- System Architecture
- Team Leadership
- Code Reviews
- Technical Mentoring
- Project Management

Software Development

- Java
- Spring
- Microservices
- API Development
- gRPC
- Apache Arrow

Cloud Technologies

- Cloud Architecture
- Deployment Automation
- Monitoring
- Scalable Systems

KEY PROJECTS

Hybrid Cloud Monitoring System

Developed a comprehensive solution to monitor, update, and support both cloud and on-premise deployments

Technologies: Cloud Architecture, Monitoring, DevOps, Automation

- Real-time monitoring of hybrid infrastructure
- Automated update and deployment processes
- Support for mission-critical environments
- Scalable architecture for multiple deployment types

Genomic Data Query System

Architected a scalable system for near-instant genome-wide association studies

Technologies: CUDA, MKL, gRPC, Apache Arrow, Service Architecture

- Migration from monolithic to service-oriented architecture
- High-performance computing integration
- Interactive genetic data querying
- Commercial-grade genomics platform

Tax Compliance Framework

Led development of French Tax Law compliance system and EU reporting solutions

Technologies: Spring, Kubernetes, Microservices, Financial Systems

- Complex regulatory compliance implementation
- Microservice architecture transition
- API service design and implementation
- Cross-functional team collaboration

LANGUAGES

- English
- French
- Spanish