Curriculum Vitae

Simon Bone

Profile

Simon is a skilled and dependable Platform Engineer with proven experience in designing, deploying, and maintaining cloud-native infrastructure in both Azure and GCP. With a strong foundation in DevOps practices, he specialises in building automated, secure, and scalable platforms.

Key skills and experience include:

- Infrastructure-as-Code using Terraform
- CI/CD automation with GitLab CI and GitHub Actions
- GitOps deployment using ArgoCD and Flux
- Managing self-hosted GitLab and GitHub servers and runners
- Containerisation with Docker
- Deploying to Kubernetes (including AKS and GKE) using Helm charts
- Supporting applications built in .NET Core, Node.js, Java, and Kotlin
- Designing branching strategies, versioning standards, and change control processes
- Integrating with Azure services including APIM, Azure Front Door, and Entra ID
- Implementing security scanning with tools like Snyk

Simon ensures robust delivery pipelines and infrastructure that enable fast, reliable software delivery. Now at Capgemini, he helps clients modernise and optimise their cloud environments through thoughtful architecture and automation-first solutions.

Skills

CICD
DevOps
HashiCorp Terraform
Kubernetes
Microsoft Azure

Job

Platfrom Engineer

Education

- BEng (Hons) 2:2 Electronic & Electrical Engineering, University of Surrey
- 'A' Levels + GCSEs

Professional Experience

DevOps Engineer | Evelyn Partners

December 2023 – November 2024

At Evelyn Partners, a leading financial services company, Simon served as a DevOps Engineer, playing a key role in modernizing and optimizing the company's infrastructure on Microsoft Azure. His primary project involved migrating a monolithic suite of .NET Core APIs from a VM-based architecture to a microservices-based architecture within an Azure Kubernetes Service (AKS) cluster. The migration aimed to streamline the customer onboarding process by eliminating manual steps and consolidating the APIs into a more efficient, scalable, and maintainable environment.

The development team restructured the monolithic application by splitting it into microservices and rewriting the React front end to interface with these services, significantly improving the onboarding process and reducing operational complexity. Simon was responsible for containerizing the newly created APIs—occasionally contributing C# code where needed—and for designing and implementing the Infrastructure as Code (IaC) using Terraform, along with Helm and CI/CD pipelines. These pipelines included security and code quality analysis using Snyk, ensuring a robust, automated, and version-controlled deployment and management process for the microservices.

Key Responsibilities

- Developed Terraform scripts to manage Azure infrastructure components, including storage, networking, and AKS clusters.
- Designed and maintained Helm charts for API deployment within the AKS cluster, enabling seamless integration and scaling.
- Created and optimized GitHub Actions for CI/CD, facilitating automated, versioned deployments to the AKS cluster using ArgoCD and Helm.
- Led the migration of the CI/CD process to reusable workflows, reducing code duplication and improving maintainability.
- Developed Helm charts and Terraform configurations for deploying static persistent volumes and securely mounting Azure Key Vault secrets onto API pods.
- Contributed to broader DevOps initiatives, including secret rotation, upgrades to Azure cloud infrastructure (e.g., APIM, Front Door), and participation in support incident calls.
- Authored custom PowerShell scripts for applying tags across Azure infrastructure, along with Makefiles, Bash scripts, and additional PowerShell tools to support ongoing projects.

Key Achievements

- Created comprehensive GitHub Actions workflows capable of building, destroying, and rebuilding management, development, staging, and production clusters, along with associated support tools such as ArgoCD, Prometheus, and Grafana.
- Successfully redesigned the CI/CD process for the new clusters, implementing reusable workflows to enhance efficiency and reduce redundancy.
- Developed and implemented Helm charts and Terraform scripts to deploy and manage persistent storage volumes for APIs and securely mount secrets from Azure Key Vault onto pods as volumes.

Key Technologies

- Azure
- Kubernetes
- Kubectl
- AKS
- Helm
- ArgoCD
- Terraform
- Istio
- GitHub
- GitHub Actions
- CI/CD
- Snyk
- GitOps

- Bash Scripting
- PowerShell
- Azure CLI
- Azure PowerShell
- .NET Core 8.0

DevOps Engineer | BMI Group

September 2019 – December 2023

As a founding member of the DevOps team, Simon played a crucial role in supporting the GCP cloud-based product suite for BMI's MeinDach brand, a German web platform connecting homeowners with roofing contractors. The suite included several React web applications and JVM Kotlin microservices, all hosted and orchestrated on the GCP Kubernetes Engine (GKE) using Terraform, Helm, Flux, CircleCI,
GitLab CI and SonarQube.

Following the Meindach project, Simon developed and customised a SAP Hybris application and managed the migration of the project to SAP Commerce Cloud.

Key Responsibilities

- Spearheaded React frontend development and backend microservice development using Kotlin for the MeinDach product suite.
- Customized and maintained a CRM (SugarCRM) while managing the CI/CD pipeline through CircleCI and GitLab CI, with Infrastructure as Code (IaC) implemented via Terraform and orchestration on GKE using Helm and Flux.
- Managed and deployed infrastructure for a customized SAP Commerce (Hybris) platform, which served as the B2B product catalog for the entire BMI global group, across GCP and Azure using Terraform.
- Led the migration of the Hybris platform from version 1905 to SAP Cloud Hybris version 2211 and transitioned the CI/CD pipelines from Jenkins to GitLab CI.
- Developed and maintained a scalable GKE cluster of GitLab runners, supporting deployment pipelines for all BMI projects on GitLab CI.
- Introduced uptime scheduling for non-production Hybris and Solr VMs, resulting in up to 20% savings in GCP running costs by optimizing operating hours.
- Automated and documented critical DevOps tasks for the Hybris platform, including database migration, user onboarding, Terraform value generation, and enhancements to the deployment pipeline.

Key Technologies

- SAP Commerce (Hybris: 1905, 2005, 2211)
- Terraform
- GitLab CI
- Jenkins
- GitHub
- Contentful
- Kotlin
- Spring Boot
- Groovy
- Maven
- Gradle
- NPM
- React
- TypeScript
- Node.js
- Redis
- MySQL
- SugarCRM,

- CircleCI
- GCP
- GKE
- Azure
- Kubernetes
- Docker
- Flux
- Helm
- SonarQube
- WordPress
- MailChimp
- Mandrill
- Google Analytics

Senior Developer | IMImobile Intelligent Networks (formerly Infracast)

December 2009 – September 2019

Over nearly a decade at Infracast and IMImobile, Simon played a pivotal role in core product development, contributing to the company's growth from a small team of fewer than 10 people to becoming part of a global group.

Key Achievements

- Developed extensive expertise in the SMPP v3.4 protocol, contributing to the entire Infracast product suite through development and support.
- Solely designed and developed the NMX (Network Messaging Exchange) platform, a high-volume, high-availability message processing system, using Java 8, Datastax/Apache Cassandra, and SQL Server, completed within 6 months from inception to deployment.
- Enhanced NMX by designing a Mobile Number Porting (MNP) data loader and processor for precise network-based routing.
- Further optimized NMX by designing a high-volume SMS message routing engine and integrating Spring Boot and Apache Kafka. This involved configuring an Kafka cluster with Zookeeper to act as the Message broker backbone.
- Contributed to the development of the AMS (Advanced Messaging Service) platform, a microservice-based architecture utilizing Spring Boot RESTful Web Services.
- Played a key role in the development team for the EMX (Enterprise Messaging Exchange), a web-based messaging platform built on C#.NET.
- Developed and maintained "Central" an in-house CRM, support, reporting, and billing website and database.
- Provided operational deployment and support, often during off-hours, for critical clients including police and ambulance services, as well as major banks.

Key Technologies

- Java
- Spring Boot
- Maven
- Cassandra
- Apache Kafka
- SQL Server
- JSON
- XML
- JUnit
- Mockito
- Cucumber
- SonarQube
- IIS
- C#.NET

- VB.NET
- HTML
- CSS
- JavaScript
- jQuery
- Telerik Controls
- C++
- Jenkins
- TeamCity
- Docker
- Azure
- Octopus
- GIT
- TFS
- SVN

Additional skills

Technical: CICD, build automation, code quality, coding convention, continuous delivery, continuous integration, infrastructure as code, version control, source code management, API development, API testing, application software, application support, AWS, back-end development, CDP, cloud computing, data analysis, data infrastructure, data migration, data processing, database, front-end development, GUI testing, high availability, infrastructure, intranet, MBaaS, messaging administration, microservices, mobile messaging, mobile number portability, NoSQL database, RDBMS, requirements analysis, REST, software design, software development, software testing, system requirements, telecommunications, telecoms software development, test automation, web application
Functional: aerospace, automotive industry, banking sector, BPM, CRM, customer accompaniment, defense sector, financial securities, financial services, financial software, FinTech, fleet management, high-tech industry, management, manufacturing, manufacturing engineering, marketing campaigns, marketing tools, motorcycle, performance report, product catalog, product development, project management, public sector, reporting, risk management, SAP, user requirements, user support
Cross functional: messaging platform, e-mail, instant messaging
Behavioral: reliable
Business software: Istio, Microsoft Excel, Octopus, SugarCRM, WordPress, Mailchimp
Methods: DevOps
Tools: HashiCorp Terraform, Kubernetes, Bash, Git, GitHub, GitLab, Helm, Microsoft Azure CLI, Argo CD, Bitbucket, GitOps, Microsoft Azure PowerShell, Prometheus, Apache ActiveMQ, Apache Ant, Apache HTTP server, Apache Maven, Apache Solr, Apache Subversion, Apache ZooKeeper, API, Cucumber, Datadog, Eclipse, Flux, Google Analytics, Gradle, Grafana, IntelliJ, Jenkins, JetBrains TeamCity, JVM, message broker, Microsoft PowerShell, Microsoft SQL Server Integration Services, Microsoft Team Foundation Server, Microsoft Visual SourceSafe, Microsoft Visual Studio, NPM, PVCS, SAP Crystal Reports, SonarQube, Telerik
Programming languages: SQL, HTML, T-SQL, C#, C++, CSS, Java, JavaScript, Kotlin, Microsoft VBA, Microsoft Visual Basic, Oracle PL/SQL, TypeScript, VB.NET, Apache Groovy, Python, webform, XML
Frameworks: .NET, .NET C#, ASP.NET, JUnit, Mockito, Node.js, NUnit, React.js, Spring Boot, Gatsby, JQuery, Microsoft Windows Forms, Redux
Databases: Microsoft Access, Microsoft SQL Server, MySQL, Apache Cassandra, Oracle RDBMS, Redis
Platforms: Microsoft Azure, Apache Kafka, Docker, CircleCI, Google Cloud Platform, Google Kubernetes Engine, Microsoft Azure DevOps Server, Microsoft Azure Key Vault, Microsoft Azure Kubernetes Service, Microsoft Internet Information Server, SAP Commerce Cloud, Snyk, Microsoft Exchange Server, SAP Cloud Platform, Contentful, Kibana
Protocols: REST API's, FTP, SMPP, SMS, SMTP, SOAP, SOAP API
Norms and standards: JSON, ISO 9000

Languages

English : Native