

Senior Infrastructure Engineer

Infrastructure Engineer • Site Reliability Engineer • Software Engineer

Jersey, Channel Islands

Introduction

I am an extremely passionate **Infrastructure Engineer** constantly trying to improve my own skills and learn from new experiences. My favourite way to spend my pastime is to create educational content about **Infrastructure**, **Cloud Architecture** and what I call **Developer-first Operations**, for my website & Youtube.

At the moment I have a particular love and fascination over the **Kubernetes Ecosystem**.

My **Developer-first** philosophy prioritises empowering teams to focus on building and innovating, while seamless infrastructure and automation handle the complexities. I believe that adopting and integrating a strong **DevOps** culture is vital for companies to drive efficiency, collaboration, and developer productivity.

Recently, I have been focusing on helping organisations meet and exceed their requirements with **Availability**, **Maintainability**, **Observability** and **Speed of Development**. Which I believe are the core fundamental issues that DevOps, and therefore I, intend to solve.

I have a broad range of experiences in different work environments such as the **Automotive**, **Logistical**, **Fintech**, **Finance**, **Hospitality**, **Software as a Service** and **Gambling** industries.

Throughout my professional journey, I have had the opportunity become experienced with **Remote Work** and have successfully blended **Efficient Communication** and **Teamwork** with the perks of flexibility.

I hope this curriculum vitae is the start of a wonderful and memorable experience for both of us.

Skills

◦ Driving License

◦ English (Native)

◦ IT Experience (13+ years)

Experience

Current Employment *redacted*

Director & Infrastructure Consultant/Contractor

- Managing infrastructures for clients in **Fintech**, **Finance**, **SAAS** & **Logistics**
- Pursuing a focus for **Developer Experience** with strong CI-CD and infrastructure solutions
- Providing tools and educational material designed to **Simplify The Complexity Of Infrastructure**

Technologies: AWS, Baremetal, BigQuery, GCloud, Golang, Kubernetes, Parquet, Proxmox, Tailscale

Responsibilities: Architecture Design, Engineering, On-call support

Highlight: Achieved a 0% release error rate by implementing thorough testing throughout the build process.

Jersey,
Channel Islands
Apr. 2023 - Present
Remote

MN Services

Senior Infrastructure Consultant/Contractor

- Lead investigation to produce readiness assessment reports to ensure program **Operational Readiness**
- Aiding in planning the transition from development to a **Production-Ready** project
- Restructured and greatly expanded project documentation to enable a **Seamless Handover**
- Engineered outbound datalake solution, focused on **Security**, **Performance** and **Cost Efficiency**

Technologies: Apache Kyuubi, AWS Athena, AWS Lakeformation, FluxCD (GitOps), Kubernetes, Parquet, Terraform

Responsibilities: Engineering, Operational Readiness

Highlight: Teamed-up to drastically reduce project vulnerabilities, cutting them down from thousands to negligible figures, while also ensuring that new releases consistently met the high standards required for production environments.

May. 2022 - Dec. 2023
Remote

Haddon Consultancy

Independent Infrastructure Consultant/Contractor

- Managing infrastructures for clients in **Fintech, Finance & Logistics**
- Specialising in managing **Kubernetes** for processing **BigData** systems on **AWS** and **GCloud**
- Engineering automatic ephemeral integration environments for **Continuous Integration** pipelines
- Coordinating with **SOC Teams** to investigate platform **Anomalous Behaviour**
- Collaborating with the design of the future **Infrastructure Architectural Landscape**
- Reorganising projects technical documentation, in order to **Accelerate Onboarding Processes**
- Modernising of infrastructure from chaotic spaghetti to **Structured GitOps** repositories
- Working in environments with **Sensitive Data** and **Compliance Requirements**

Technologies: ArgoCD (GitOps), Kafka, Kubernetes, Terraform

Responsibilities: Architecture Design, Budgeting, Engineering, On-call support

Highlight: Successfully decreased clients' cloud spending by 65% through the strategic implementation of more efficient technologies and effective management of application configuration and resource allocation.

*Gouda,
The Netherlands
May. 2022 - May. 2023
Hybrid + Remote*

Dyme

Lead Infrastructure Engineer

- Supporting a rapidly accelerating & expanding **Fintech Startup**
- Architecting new infrastructure landscape utilising **GitOps, Service Meshes** and **Kubernetes**
- Re-engineering platform infrastructure from scratch utilising **Open Source** technologies
- Building **Continuous Load Testing Solutions** to ensure stability during traffic spikes
- Encouraging and supporting an environment which promotes **Developer Responsibility**
- Investigating and assessing future infrastructure requirements based on the organisational goals
- Maintaining a scalable platform on **Google Cloud's Kubernetes Engine**

Technologies: ArgoCD (GitOps), AWS, GCloud, Istio, Kubernetes, Terraform

Responsibilities: Architecture Design, Engineering, On-call support, Operational Maturity

Highlight: Recruited in response to challenges in achieving reliability targets aligned with product growth, I led a complete overhaul of the platform, successfully ensuring an availability uptime of 99.9%, while providing for a drastic increase of concurrent usage.

*Amsterdam,
The Netherlands
Jan. 2021 - Jun. 2022
Hybrid + Remote*

Portbase

Senior DevOps Engineer

- Maintaining the core **Logistical Tech-Stack** for the Dutch ports
- Architecting & engineering solutions for organisational **CloudNative Adoption** and transition
- Assessing **Operational Maturity** against the organisational goals
- Developing roadmaps for **Observability, Stability** and **Scalability**
- Integrating modern release strategies, such as **Canary** releases
- Organising and leading **Training Workshops** to coach the personal development of other engineers
- Leading an investigation and project into the integration of **Kubernetes, Service Meshes & Gitops**
- Responsibility for maintaining **Highly-Critical Services** on **AWS** and ensuring **Availability Goals**

Technologies: AWS, Istio, Java, Kubernetes, AWS Lambda, Oracle, Terraform

Responsibilities: Architectural Design, Engineering, On-call support, Operational Maturity

Highlight: Following a challenging shift from third-party managed infrastructure to self-managed AWS, I led the initiative to significantly improve system reliability, reducing the mean time between incidents from daily occurrences to just once every few months.

*Rotterdam,
The Netherlands
May. 2019 - Dec. 2020
Hybrid*

Lunatech Labs

Consultant Site Reliability/Infrastructure Engineer

- Providing services for a leading player in the German **Automotive** industry
- Hosting Internal **Workshops** for inter-project knowledge sharing
- Collaborating closely with **International** teams remotely and in-person
- Coordinating infrastructure support with **International** clients

Technologies: Scala, Java, DC/OS, Kubernetes, Javascript

Responsibilities: Client Engagement, Onboarding, Training

Highlight: Streamlined the engineer onboarding process for projects by implementing comprehensive training, significantly cutting down the time required to bring new team members up to speed.

*Rotterdam,
The Netherlands
Sep. 2017 - Apr. 2019
Hybrid*

Audi Electronics Venture

Consultant Site Reliability/Infrastructure Engineer

- Managing over **400 AWS EC2** instances across **15 Clusters**
- Engineering automated deployment solutions with **Terraform** and **Ansible**
- Developing **CI/CD** pipelines with **Jenkins**, including automatic **Nightly** build testing
- Orchestrating **Docker** and **UCR** containers with **DC/OS** and **Kubernetes**
- Supporting highly distributed **Big Data** processing nodes

Technologies: Ansible, AWS, Datastax (Cassandra), Docker, DC/OS, Jenkins, Kafka, Kubernetes, Mesos, UCR

Responsibilities: Engineering, On-call support, Client Engagement

Highlight: Drastically reduced the complexity of our CI/CD system, so-much-so, that the average CI/CD ticket complexity dropped by half.

*Sep. 2017 - Apr. 2019
Remote*

Twelve40

Full-Stack Developer

- Engineering core services for an international **Gambling** platform
- Maintaining and developing a **PHP** website using the **Silverstripe** framework
- Leading **Javascript** frontend transition and rewrite from **ECMAScript 5** to **ECMAScript 6**
- Leading modernisation of **CSS** architecture to **SCSS**
- Developing **Java** tools for **Continuous Production Compliance Testing**
- Creating, configuring, nurturing, and later automating, **LAMP** staging servers
- Automating creation and configuration of **Local Development Environments** with **Vagrant** and **Puppet**
- Working closely with clients across **Three Continents**

Technologies: Apache, Java, Javascript, Linux, MySQL, PHP, Puppet, SCSS, Vagrant, Virtual Machines

Responsibilities: Engineering

Highlight: Enhanced our system's testing efficiency by dramatically decreasing the time required to establish test environments, from several weeks to mere minutes, thereby boosting our ability to conduct reliable testing swiftly.

*Jersey,
Channel Islands*
Sep. 2016 - Aug. 2017
On-Site

The Processor Centre

Consultant Systems Administrator & Technical Support

- Maintaining the IT infrastructure of **30+** local companies
- Working with companies in **Many Industries**, notably hospitality and finance
- Organising continuous **Disaster Recovery Testing** of highly critical and confidential data
- Configuring **Firewalls**, **Routers** and **High Resilience** servers
- Providing phone and **On-site Technical Support**

Technologies: Linux, Virtual Machines, Windows Server, Windows, Sophos, VMWare

Responsibilities: On-call support, Client Engagement

*Jersey,
Channel Islands*
Mar. 2012 - Aug. 2016
On-Site

Freelance

Website Development

- Working with small clients in the local hospitality, education and music industries
- Creating bespoke websites with integrated **Content Management Systems**
- Hosting on my own **CentOS** servers, and later, **AWS EC2** machines

Technologies: Apache, AWS EC2, Javascript, Linux, MySQL, Nginx, PHP, CSS, Virtual Machines

Responsibilities: Client Engagement, Engineering, On-call support, Product Management

*Jersey,
Channel Islands*
July. 2010 - Sep. 2014
Intermittent, Remote

Education

Cloud Native Foundation

Certified Kubernetes Administrator

*Rotterdam,
The Netherlands*
2018

Highlands

BTEC (Business and Technology Education) Diploma

Covered:

- Object Orientated Programming in C#
- Software development processes of Scrum, Agile and Waterfall methodologies
- Server Networking
- Core understanding of computer operations

Results:

- BTEC National Diploma for IT Practitioners: **Triple Distinction**
- COMPTIA A+ Essential Support Skills: **Pass**
- COMPTIA A+ Practical Applications: **Pass**
- COMPTIA Network+: **Pass**

*Jersey,
Channel Islands*
2009 - 2011