**[REDACTED]**

**Site Reliability Engineer**

**Contact:** DM me on Discord/Fedi if you have an actual listing for full version. @SiteRelEnby@tech.lgbt

**Pronouns:** she/her (preferred) or they/them

**Profile**Site Reliability Engineer with strong Linux and networking background, experienced primarily with AWS and GCP cloud environments, Kubernetes, and in automation, infrastructure deployment and monitoring, and containers.
US permanent resident with full eligibility for employment with no sponsorship requirements.

**Work experience**

July 2022 – July 2024 **[REDACTED]** Sr. Site Reliability Engineer

* Deployment of security and EDR tools across cloud environments, migration of GKE clusters to private networks and of services to GCP Private Service Connect
* Deployment of best-practice security configuration organisation-wide based on EDR tooling (CrowdStrike) and reports from security team
* Deployment of production infrastructure using Terraform; migration of legacy infrastructure into Terraform and migration of existing ad-hoc config to Terraform modules with enforcement of security best practices
* Both standard oncall and security-specific incident response working closely with security team
* Working with compliance team for required system audits and improving audit processes including writing explanations of certain aspects of system design
* Migration of large (600+TB) MySQL databases from self-managed static VM infrastructure to CloudSQL
* Implementation of static analysis tooling to CI environment as part of security work
* Management of infrastructure using IaC tools (Terraform), including version upgrades, importing hand-configured infrastructure into Terraform state, migration of duplicated configuration into modules
* Managed workload without a dedicated manager for approximately 6 months during hiring freeze

Feb 2024 – Present **[REDACTED]** Co-founder & Chief Operating Officer (part-time)

* Co-founder and COO of SEC-registered investment advisory firm
* Founded as a passion project between myself and a close friend (formerly co-founder of Analytica); started as a method for managing our personal investments, before expanding to a broader scope with a family of funds for diverse investment strategies with a strong focus on fundamental value and companies with very strong ESG principles
* Performing analysis of macroeconomic conditions and individual equities to determine investment strategy for the family of funds operated by the Group

November 2023 – Feb 2024 **[REDACTED]** Co-founder & Chief Technical Officer

* Co-founder, CTO, and seed round investor in a biotechnology startup
* Planned product: Platform for genome research and drug development, leveraging machine learning as well as providing tools to accelerate processes of compliance and approval
* Closed in Feb 2024 due to lack of available outside investment and time and financial constraints on both my and my co-founder’s part, in order to free up our time for **[REDACTED]**

October 2020 – July 2022 **[REDACTED]** Site Reliability Engineer

* Managing AWS-based infrastructure including legacy codebase on EC2 with autoscaling groups, migration from instances built with Chef to pre-built AMIs linked to Gitlab CI/CD pipeline and to Kubernetes-based microservice architecture
* Management of EKS-based infrastructure
* Security work including assessment of vulnerabilities, in place patching of infrastructure and automating build and deployment based on security scanning, Linux security hardening, incident response
* Deployment of infrastructure using Terraform
* On-call incident response
* Pride ERG board member, representing LGBTQIA+ employees and raising issues and concerns to senior management

September 2015 - October 2020 **[REDACTED]**/**[REDACTED]** Site Reliability Engineer

I was initially employed within the **[REDACTED]** division of **[REDACTED]**; this division was sold to **[REDACTED]** in May 2020 with transfer of employment status and responsibilities.

* Responsible for management of multiple Kubernetes clusters running on AWS hosting microservice-based APIs
* Migration from legacy (2.x) ELK stack used at a small scale for application-specific state to a scalable solution on a current version of ElasticSearch handling a mixture of application-level state storage and high volume application log traffic from Kubernetes clusters for monitoring and analysis purposes.
Replaced ad-hoc solutions for monitoring and reporting with centralized Kibana infrastructure and access to application logs for development teams.
* Migrated monolithic services from multiple infrastructure platforms (primarily manually provisioned Docker containers and AWS Elastic Beanstalk) to a mix of Kubernetes-hosted and AWS managed services.
* Managed multiple Cassandra clusters hosting large datasets (100TB+)
* Implemented collection of key application metrics to InfluxDB. Realized savings of approximately $25,000/yr in migration from commercially-licensed InfluxDB to open-source while retaining high availability via implementing a system for distribution of collected data via RabbitMQ.
* Implemented dynamic service level monitoring using Sensu, replacing statically-configured monitoring with a focus on individual hosts rather than services as part of a migration to a host-agnostic infrastructure model within Kubernetes.
* Improved and expanded Continuous Integration development workflow
* On-call rotation; direct fixes to incidents relating to infrastructure I was responsible for, and escalating to other team members for complex issues regarding systems not within my own direct responsibilities.

October 2013 - September 2015 **[REDACTED]** Senior Systems Administrator

* Lead systems and network administrator for a high availability application cluster supporting more than 1000 UK schools. Virtualized infrastructure on colocated hardware with internal and external BGP and Ceph, MySQL and PostgreSQL services.
* Responsible for the planning of future infrastructure expansion, its installation and maintenance, configuration using configuration management systems, and monitoring.
* Provided 3rd level support as necessary with issues the support team required assistance on, and responded to issues as part of an on call rotation.
* Responsible for improving monitoring and statistic gathering systems, ensuring the stability and performance of our BGP peering links, configuring new network expansion in the datacentre and office including a successful migration between service providers without downtime and upgrades of office network infrastructure.
* Identified potential future areas for concern and ensured these were planned for, while responding to any operational requirements as they came up and identified areas capable of further automation of routine tasks.

November 2012 – October 2013 **[REDACTED]** Linux Systems Administrator

* Part of a team responsible for network, database and application administration tasks including the administration of a network of production servers with very large email and DNS infrastructures and numerous independent instances of MySQL servers, in addition to development environments, the configuration and maintenance of infrastructure and services and internal systems support for the company by performing advanced routine and non-routine administrative and 3rd level support tasks, troubleshooting application and system issues and creating reporting data.
* Additionally responsible for implementing a monitoring system to notify of potential or current problems and collect statistical data for analysis of problems and potential limitations/areas for improvement, efforts towards the standardisation of the server estate, creation and maintenance of scripts for a production environment as well as utility scripts for administration, and proactive review of potential issues with corrective action or escalation to development teams as necessary. Handled support tickets on both an internal basis, and liaising with external customers through the customer service teams.

**Education**2008 – 2011 BSc (Hons) Computer Science; **[REDACTED]**, UK.

**Experience/Skills
Software**

* Kubernetes (bare metal, EKS, and GKE)
* Docker
* Terraform
* Cassandra, DynamoDB, PostgreSQL, MySQL, Aurora, Google Cloud SQL
* CI/CD: Atlassian, GitLab, GitHub, Jenkins, ArgoCD
* Configuration management: Puppet, Salt, Chef
* Message queue systems: RabbitMQ, ActiveMQ
* Monitoring and observability: Datadog, Grafana, Prometheus, InfluxDB, ElasticSearch, OpenSearch, Datadog
* Debian, Ubuntu, CentOS, RHEL, Alpine general Linux performance tuning/automation

**Cloud**

* AWS: EC2, VPC, RDS (PostgreSQL, Aurora), IAM, Cognito, Lambda, S3, Route 53, ElastiCache, CloudWatch, OpenSearch, EKS, ECR, IAM
* GCP: GKE, GCS, load balancing, IAM, Private Service Connect, Cloud SQL

**Email**

* Postfix, Exim, PowerMTA, email deliverability and authentication mechanisms (DKIM/SPF/DMARC), anti-spam, overall excellent understanding of email deliverability and security principles

**Development**

* Extensive skill in shell scripting and Linux automation. Capable of working in Python, C, and Golang, some knowledge of Ruby

**Network**

* Network design and management at the logical and physical levels for both cloud and on-site infrastructure. Use of BGP in a small AS environment.

**Hardware**

* Physical network infrastructure and datacenter environments

**Security**

* Configuration best practices, monitoring, EDR (CrowdStrike), incident response, redteam

**Other Skills, Interests, and Activities**

* Contributor to open source firmware and hardware projects (estimated to be included in ~50 currently commercially available products from 6+ companies, including providing implementation support for commercial users as a project maintainer)
* Activism advocating for vulnerable LGBTQ+ people who are facing abuse and mistreatment from healthcare providers while non-consensually detained under mental health provisions
* Technology reviewer

**References available on request.**