AROGBONLO, SAMUEL

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EXPERIENCE

Chainsafe Inc

Senior DevOps Engineer   **Jan 2023 - Present**

- Developed the seamless integration of New Relic, K6S, Grafana Suite, Loki, and Prometheus to establish robust monitoring capabilities; set and customised dashboards to optimise issue identification and manage logs.
- Managed and optimised system stability of **200+ Heztner & OVH bare metal servers** leveraging Linux automation expertise; running validators, filecoin node and Ethereum lodestar beacon services.
- Explored Terraform, Ansible and AWS to maintain a highly scalable infrastructure for the Filecoin Foundation, and achieve an uptime stability of over 99%.
- Contributed a Garbage collector feature for the forest client with Rust; then, I built a Go service to check peak memory usage, compare it to Lotus, and give its report in CSV.
- Implemented a comprehensive suite of linters and CI checks on GitHub Actions to maintain and update infrastructure code, reduce code defects by 40%, and ensure consistent code quality across the project.
- Built automated snapshot service for the community and the infrastructure to automate the daily snapshot uploads for Kusama, Polkadot and Filecoin.
- Set up self-hosted Kubernetes clusters on bare metal, automating deployment, scaling, and operations of cosmos services.
- Added a feature with Ansible to allow engineers to pass Libp2p private keys, importing wallet and custom token.
- Performed 24/7 on-call duties for Ethereum nodes and other services while managed with Pagerduty, creating incident responses and necessary communication with the community and post-mortem reports.
- Developed a secure mechanism for dealing with secrets and key management systems with AWS KMS and Vault, then 1Password for internal use, and finally, OKTA for general access.
- Created all-around docs on node maintenance and setup across the team for stakeholders and internal developers.

Fireflies AI (2 Months CONTRACT)

Staff SRE Engineer   **March 2023 - May 2023**

- Containerised and orchestrated machine learning models and data pipelines using Docker and Kubernetes (EKS), enabling the seamless deployment of AI services across different environments.
- Architected and optimised the infrastructure for AI-powered transcription and analytics services, ensuring seamless processing of large datasets, audio files, and real-time conversation data while exploring IAC tools (Terraform, Ansible etc)
- Worked closely with data scientists to streamline the deployment of AI models for speech recognition, improving model inference times and enabling real-time transcription during meetings.
- Automated the data ingestion pipeline for handling recorded audio and transcription data, ensuring fast and secure flow from recording to transcription processing, leveraging cloud storage and efficient retrieval mechanisms

Zeitgeist LLC

Lead DevRel/Infra Engineer   **May 2022 - Nov 2023**

- Extended the terraform setup with Terragrunt to seamlessly manage and handle dependencies and multiple cluster deployments; this quickened our deployment time by 20% and improved our DRY code concepts internally.
- Spearheaded the multi-region GKE cluster deployment and distribution of databases to persist chain metadata, enabling the creation of highly scalable prediction markets and driving a 25% increase in user engagement.
- Initiated monitoring procedures with Prometheus, grafana, Loki and other services for the whole infrastructure

- Introduced cutting-edge management strategies leveraging Parity Technologies, Kusama, and Polkadot to ensure uninterrupted network functionality, achieving 99.9% uptime and superior performance.
- Led the initiative to establish disaster recovery systems using Restic for ZTG nodes and production system in Linode Object storage, delivering a remarkable 90% reduction in potential downtime during data migrations.
- Optimised GitHub Workflow automation to create release notes, tags and helm chart deployment, rescuing MTTR and improving operation efficiency by 100%.
- Built community Node application for parachain testing and explored Redis for caching mechanism.
- Leveraged tools like Terraform, Ansible, and ArgoCD to spearhead the successful transition of blockchain infrastructure from Linode bare servers to **GKE**, slashing monthly expenses by 50% and boosting infrastructure stability to 200%.
- Designed and implemented a cutting-edge AWS infrastructure, leveraging CloudWatch for effective alarm monitoring, Virtual MFA for strengthened security, Route53 for seamless DNS management, and Amazon API for optimised instance operation

O(1) Labs   Sept 2021 – May 2022
Senior Infrastructure Engineer
- Prepared the automated setup of a full GKE environment for Mina Protocol, resulting in a 60% reduction in deployment time and ensuring consistent and reliable deployment across different environments.
- Implemented local integration test setup for the community to run a section of the Mina Network with Docker compose, Ocaml and some other tools - this slashed internal costs by 50%.
- Conducted comprehensive codebase review and helm chart testing for internal operations, optimising efficiency and readiness for DApps development; identified and resolved critical issues, resulting in a 40% reduction in deployment time.
- Orchestrated community engagement initiatives for product releases and iterative improvements, leveraging ZenHub as the project management software.
- Documented an SRE roadmap for the Velocity team to implement in the company-wide infrastructure to boost system efficiency by 100%.
- Implemented serverless setups using AWS Lambda and other functions to streamline internal services, reducing infrastructure costs by 40% and improving operational efficiency by 25%.
- Managed Kafka setup for internal platform Go application with PostgreSQL to set up API scraping and data management with IPFS cluster.

WoodCore   Dec 2020 – Sept 2021
Site Reliability Engineer Team Lead
- Orchestrated end-to-end automation and operations of SAAS application's cloud architecture for 100k+ customers, utilising AWS tools *(EC2, SQS, SSM, ECS, S3, IAM, CloudWatch),* resulting in improved scalability, reduced infrastructure costs, and enhanced disaster recovery strategies.
- Co-hired and mentored 5+ engineers, many of whom went up a rating band every half within the team's competitive performance review environment (30-50%).
- Orchestrated the implementation of a scalable microservice setup on EKS infrastructure, enabling future growth and distributed principles with a system uptime of over 98% and little to no intervention from developers.
- Leveraged Vector for log-to-metric conversion of application logs and enhancing reporting to Prometheus to give 100% monitoring visibility.
- Revised internal Agile-SDLC methodology, integrating CI/CD with Jenkins, led to a 40% reduction in time-to-market releases, increasing production efficiency.
- Directed cross-functional teams in ISO 9001 audits for different cycles, ensuring adherence to standards and securing consecutive 100% audit scores while streamlining processes and reducing errors by 50%.

Google Africa Developers   **Jan 2016 – Dec 2020**

DevOps Engineer

- Engineered RESTful APIs in Python, leveraging messaging queue to ensure efficient data flow; optimised system design to handle increasing user load, resulting in a 50% increase in concurrent user capacity.
- Implemented Terraform and Packer to create custom modules for provisioning, resulting in a streamlined infrastructure setup.
- Created Azure cloud infrastructure focusing on IAC, governance, automated testing, and app services; decreased time to market by 30% and achieved 99.9% uptime for critical applications.
- Conducted post-mortem analysis and reports on system failures, resulting in a bug reduction of about 20%.
- Used HAproxy to manage public endpoints

Other Projects

GitHub Projects can be accessible here.