

Results-driven software engineer with 5+ years of experience building out and scaling new products and refactoring legacy code for big and small teams.

Coded the CivKit Whitepaper from scratch in typescript and deploying code using PGP Nostr and Lightning for a seamless, decentralized trading experience.

Led development of a Bitcoin exchange at Bitnomi and implemented best practices in regulated sectors, specializing in multi-cloud architectures and security compliance.

Technologies and Languages

- Languages: Typescript, JavaScript Python, Rust, Go
- Technologies: Amazon Web Services, Continuous Integration & Deployment, Grafana, Jira, Docker, Kubernetes

Work Experience

FullStack & Bitcoin Infrastructure	Bitnomi Global	Jan 2025 – Present
<ul style="list-style-type: none">• Built and deployed an USDT-BTC wallet API with swaps using JS and docker in weeks• Automated API deployment with containerization and pipelines, speeding up deployment speed and reducing error rates for frontend team• Created documentation enabling the frontend team to integrate the backend efficiently, reducing timelines and enhancing skills		
Lead Engineer	CivKit Dubai, UAE	Jan 2024 – Jan 2025
<ul style="list-style-type: none">• Implemented the CivKit white paper to spec using TypeScript from scratch, incorporating PGP chat, Lightning escrow, and Nostr integrations.• Designed and deployed microservices with Docker and automation scripts to regtest, signet, and mainnet, enabling automated updates to be pushed within seconds.• Launched on mainnet in December 2024, completing the project end-to-end as a solo developer and handing it over to local P2P traders for independent operation.		
Senior DevOps Engineer Infrastructure team	Kure Gastonia, NC, USA	Jan 2023 – Jan 2024
<ul style="list-style-type: none">• Redeployed a 10+ year old legacy codebase comprising 7 microservices, which disaster proofed the codebase and was the first time it was redeployed since its creation.• Implemented changes to monitoring, with a goal to log 100% of mission-critical metrics. This translated to an 80% reduction in slow queries, our largest category of error.• Upskilled the team to use new technologies such as Docker, Amazon Web Services, continuous integration & deployment stabilizing time to restore to a few minutes from a few hours.		

DevOps Engineer

Software team

Sonic Labs

London, UK / Colombo, Sri Lanka

June 2022 – October 2022

- Developed a fully automated, 4 environment Elastic Kubernetes Cluster using existing code and automated all infrastructure requirements, which reduced time to deploy from 1hr to under 10 minutes.
- Trained a software engineer into a full-time DevOps engineer, who has worked therefor 2 years since as their main DevOps.
- Taken part in code reviews, ensuring high code standards, demonstrated by a 20% reduction in post-release bugs.

DevOps Engineer

DevOps Team

AgSpace

Reading, UK

July 2020 – March 2023

- Deployed a series of lambda scripts in Amazon Web Services that allowed account managers to self-service data requirements, reducing the time from days to minutes.
- Automated all functions of 2nd line support, automating most of the work to focus on infrastructure improvements. These functions included automating the generation of soil health, crop health and moisture information from internal and 3rd party data sources.
- Worked on improving application security, safeguarding user data and creating a culture of cybersecurity in the company, which improved our cybersecurity score from 52 to 63 points.

Founder

Cion Data

Nairobi, Kenya

2017 – 2019

- Created a social enterprise to assist Kenyans in entering the digital workforce.
- Helped 17 people get remote jobs in Data Quality Assurance for multinational clients, which helped them enter the digital workforce for the first time and earn significantly more than the national average.
- Improved client workflows and experiences with their existing teams, increasing productivity and retention.

Education

- **BA Development Economics & South Asian Studies, School of Oriental And African Studies**
Graduated: 2016
Graduated with 2.2, focusing on economics of developing countries, specifically India

Projects

- **Project:** GitHub Actions binary testing and logging for a custom Nostr relay.
See the relevant PR's: [CI PR](#). [Logging PR](#)
- **Technical blogging:**
Creator and designer of a Bluetooth matatu inspired by Kenya's bus culture and STEM education that I later made into a learning experience for kids. [Basic Tutorial](#)

Interests

- I'm an avid off trail runner, chess, and robotics enthusiast.
- Completed Lewa Marathon in 2022 at, 1700m elevation and 35+ degree heat, in 6h30.