

O'Brien Alaribe

London, United Kingdom

+44 7411411590

obrienalaribe@gmail.com

Telegram: obalaribe

EDUCATION	BSc in Computer Science, The University of Leeds, UK (2012- 2016) : 2:1
WORK EXPERIENCE	<p>Core Senior SRE, Polygon Labs- AVAIL DA (06/2023 - Present)</p> <ul style="list-style-type: none">• First devops engineer in the team, configuring all infra requirements from testnet to mainnet• Building and automating ephemeral devnets for engineers to test ideas quickly• Snap integration deployment with metamask• Joining DevRel team at Hackathons to promote our stack and providing supporting infrastructure to help Hackers build on Avail DA• Deploying global Light client infrastructure• Deploying Ethereum to Avail Bridge microservice on kubernetes• Knowledge on Kademlia, distributed hash tables and p2p infrastructure• Automated deployments for RPC infrastructure across regions with GHA• Config management with Ansible playbooks across AWS, GCP & DO• Architecting monitoring/observability requirements for our global lightclient p2p network• Setting up Open Telemetry for aggregating logs, traces and metrics• End to end monitoring with Datadog• Engaging with external infrastructure providers for our ecosystem nodes <p>Senior DevOps, Validation Cloud (12/2022 - 06/2023)</p> <ul style="list-style-type: none">• Deploying EVM based chains (Eth, Bsc, Avax, Erigon, Polygon)• Deploying Cosmos based chains into Kubernetes• Enforcing security around the company and adhering to SOC2 compliance• Experience deploying custom Polygon zkEVM CDK Validium Chains• Experience with RPC nodes in the Cosmos ecosystem• Automate RPC node config/upgrade with Ansible across 1000 machines• Aggregate & Monitor blockchain metrics on Datadog• Building Observability and Instrumentation into microservices• Deploying/Configuring Kubernetes clusters with GitOps• Coordinate chain upgrades, bug fixes, and troubleshoot node performance <p>Lead DevOps/ Rust Dev (Substrate/Rust)- PAID Network (10/2021 - 12/2022)</p> <ul style="list-style-type: none">• Leading a remote team of SREs & DevOps Engineers• Coding simple Smart Contracts in Solidity• Working with Truffle/Hardhat/Ganache/EthersJS• Building Rust CLI apps and libraries• Hybrid role across DevOps tasks and Substrate Runtime development• Building FRAME and FRAMEless pallets in Substrate• Deploying chain to Rococo testnet• Automated Node Release/Configuration with Ansible• Architecting CI/CD release management with Github Actions• Integration Tests with Zombienet, & Forkless Runtime Upgrades• Unit Testing State Transition Functions in Substrate• Working with Currency Pallet: using Lockable/Reservable Currency

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- Networking experience with RPC, Websockets, DNS, VPN, TCP/IP, Libp2p
 - Deploying Substrate Private Testnet within Kubernetes
 - **Monitoring/Log Aggregation in Datadog/Prometheus**
 - **GitOps** development using ArgoCD into AWS/GCP
 - Experience with **Storage/Storage migrations** in Substrate
 - Working with **SCALE codec** encoding
 - Configuring **Genesis state** for node runtime
 - Working with Transaction Lifecycle Hooks

Polkadot Blockchain Academy (Rust), Buenos Aires (01/2023 - 03/23)

- Programming **Merkle Tree Proofs** in Rust
- Public/Private Key Signatures & Zero Knowledge
- Blockchain Concepts: Account models, p2p networking (libp2p)
- Building an Account-based cryptocurrency in Substrate **without FRAME**
- Engineering a Quadratic Voting protocol **using FRAME**
- Benchmarking Runtime **FRAME pallets**
- **Building FRAME and FRAMEless pallets in Substrate**
- **XCM MultiLocations and teleporting assets from Polkadot relay chain**
- Experience with Smart Contracts in **Ink**

Senior DevOps Engineer (Perm), GFT Global Group , London (10/2020 - 10-2021)

- Architecting and implementing secure enterprise solutions for global Financial institutions like **HSBC, Deutsche Bank** and **London Stock Exchange**
- Managing and deploying Kubernetes at scale with Istio as a Service Mesh
- Experience with Anthos
- Security tools: **SonarCloud, Synk, Datadog**
- Deploying Terraform Enterprise and modules for GCP services
- Client engagement and stakeholder management

Senior DevOps Engineer (Contract), DueDil, London (01/2020 – 07/2021)

- Migrating workloads into Google Kubernetes Engine
- Monitoring workloads with Prometheus & Grafana
- Maintaining/Scaling high class data stores: Elasticsearch, BigQuery, GraphQL
- Solid understanding of Microservices & Service Mesh (Istio)
- Leading Canary Deployments with weighted traffic for A/B Testing
- Building robust Continuous Delivery pipelines with Spinnaker
- Defining Infrastructure as code with Terraform
- Implementing Google style SRE methodologies like SLIs & SLOs
- Load Testing workloads with Locust

Google Authorized Trainer (Contract), ROI, New York (08/2019 - 11/2021)

- **Certified: Professional Google Cloud Architect**
- Google NEXT: Technical demos at partner stand
- Auditing & Co-teaching virtual cloud training to Google partners

Senior Platform Engineer (Perm), Netpremacy, Leeds (05/2019 – 01/2020)

- Presenting at Google NEXT & hosting technical demos at partner stands
- Working with Google Engineers to develop solutions
- Technical Pre-Sales experience around the Google Cloud Platform
- Onboarding companies unto GCP and running technical workshops
- Securing & Solutionizing Cloud Native Solutions for Retail & Energy companies: Morrisons, Jet2, JustEat, Next plc, JD
- Upskilling internal staff members by leading “Lunch and Learn” sessions
- Building & Securing Cloud Native solutions for Big Data & IoT devices
- Experience administering and deploying to Kubernetes clusters
- Service Mesh experience with Istio, Anthos, GKE-onprem

DevOps Engineer (Perm), Sky Betting & Gaming, *Leeds* (05/2018 – 04/2019)

- Exposure to Container Orchestration with Kubernetes & Rancher
- Experience with IT Security (ISO27001, PCI-DSS)
- SIEM logging to Splunk
- Using Chef/Packer to configure Golden AMI builds for AWS
- Deploying a Prometheus monitoring stack into ECS using Terraform
- Building Logstash pipelines for data ingest into Elasticsearch on AWS
- Load balancing solutions using Nginx, HAProxy and F5 APM/LTM

Automation Engineer (Perm), Sky Betting & Gaming, *Leeds* (11/2017 – 05/18)

- Building automation services on AWS that communicate with Salesforce
- CI/CD using Jenkins, HashiCorp Vault & Artifactory
- Log aggregation using API Gateway & Kinesis streams

Cloud Engineer (Perm), Mantic Point, *Leeds* (09/2016 – 11/2017)

- Support Cloud Transformation into AWS
- Rearchitecting monolithic systems into microservices
- Provisioning Cloud Infrastructure using Terraform
- Continuous Integration/Deployment with Jenkins

Full Stack Developer, (Freelance), SkiveServices, *London* (06/2015 – 05/2016)

- Build a responsive website using Laravel & Bootstrap3
- Building an event-driven service using serverless architecture
- Deploying an Elasticsearch cluster and indexing documents using Logstash
- Writing automation scripts in Bash/Python

Java Software Developer, (Fixed Contract), *London* (08/2014 – 05/2015)

- Working in an Agile environment in the Telecommunications industry
- Pair programming with TDD/BDD methodologies
- Designing backend Restful APIs in Spring Boot and Frontend in AngularJS

Junior Fullstack Developer (Intern) Mantic Point, *Leeds* (06/2014 – 09/2014)

- Building an admin dashboard using NodeJS & Bootstrap for travel agents and TMCs to keep track of trip itineraries

TECH SKILLS

Containers/Virtualization: vCenter, Vagrant, ECS, Docker, Rancher, Kubernetes

Cloud: AWS, GCP
Protocols: TCP, HTTP(S), DNS, LDAP, IPSec
Operating Systems: RHEL Linux, CentOS
CI/CD: Stash, Github, Jenkins, Artifactory, CodePipeline
Programming Tools: Kotlin, Java, iOS, NodeJS, PHP, Python
Monitoring: Prometheus, Grafana, PagerDuty, Slack, Elastic Stack(ELK), Cloudwatch
Testing: Selenium, Junit, Jasmine, Codeception, Serverspec
Configuration Management: Chef, Packer, Ansible
Security: F5 APM/LTM, Splunk, Vault
Scripting: Bash, Python, Terraform

LANGUAGES	English (native)
AWARDS AND REVIEWS	<p>15th Most Influential Student UK (2016)</p> <ul style="list-style-type: none"> • http://bit.ly/Top-100-Influential-Students-2016-UK <p>Top Student in Leeds (2016)</p> <ul style="list-style-type: none"> • http://bit.ly/Top-Influential-Student-2016-Leeds <p>Article by the Gryphon newspaper (2016)</p> <ul style="list-style-type: none"> • http://bit.ly/OBrien-Creates-An-Innovative-App-For-Students <p>Article by University of Leeds (2016)</p> <ul style="list-style-type: none"> • http://bit.ly/OBrien-UniOfLeeds-Alumni
WORK SAMPLES	<p>TDD and BDD</p> <ul style="list-style-type: none"> • Project demonstrating TDD and BDD using Laravel, Codeception, and Selenium • Repository: http://bit.ly/OBrien-TDD-BDD <p>iOS Projects in Swift</p> <ul style="list-style-type: none"> • SLOCO: http://bit.ly/OBrien-SLOCO • Transport4Church: http://bit.ly/OBrien-T4C • Pictogram: http://bit.ly/OBrien-Pictogram