Oli Baxandall

Lead Cloud Engineer, London

Accomplished software engineer, supporting cloud, full-stack and devops experience. Previously with an academic background and focus on research, I now specialise in enabling enterprise cloud solutions. With prolific experience across start ups and established corporations, I have fostered a committed DIY approach and a fair love of coffee.

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ORGANISATIONS

Infrastructure Lead
TradingHub Group Limited
04/2024 - 01/2025   *City of London*
a disruptive fintech, with the goal to create the world's leading financial markets analytics platform

Achievements/Tasks
– Lead the Infrastructure team of 4 engineers, maintaining internal C# tooling, managing the cloud estate and support for on-premise customers.
– Migration from AWS SDK and CloudFormation stacks in legacy root account to terragrunt envs, enabling source control per individual customer AWS account.
– During first 3 months, reduced total AWS spend by 16.4% through compute optimisation, S3 life-cycle automations and Backup Service standardisation.
– Integration with Security Hub and SSM, implementing contractual maintenance windows for adjusting instance sizes and patching; reducing warnings by 47%.
– Communication with customers for individual networking architecture requirements, debugging and routing packet traffic to market data warehouses.

Co-Founder, CSO
TangleSwap
06/2021 - 04/2024   *Remote*
a multi-million $ cross-chain DEX using a DeFi protocol on Cardano and IOTA EVM

Achievements/Tasks
– AWS Organisation and Google Admin setup to ensure best cybersecurity practices over the developer team of 6, abstracting and distributing responsibility.
– Designed serverless backend for splicing blockchain data to thousands of users in real time, utilising ethers.js, subgraph and openapi, then React integration.
– Contributed to business direction when hosting load-balanced Graph nodes, accessed through a custom authorisation scheme subscribed to by third-parties.
– Maintenance of a Cloud hosted architecture, facilitating global platform access: CLMM Swap & Liquidity Pools, Concentrated Farms, and tokenised Governance.

Senior Cloud Engineer
Garrison Technology Limited
08/2020 - 03/2024   *Waterloo, London*
hardware-enforced secure remote browsing solutions for enterprise

Achievements/Tasks
– Lead Integration of systems into IaC solutions using AWS CDK. Including EC2, Lambda, ECS, VPC, CloudFormation, RDS, Kinesis, IAM, API Gateway, S3.
– Feature ownership including SAML, Remote Session data stores, DynamoDB ORM and OTP libraries to Python parallelised buffered log streams to CloudWatch.
– Responsible for code reviews, story boarding features and distributing responsibility to developers, using tools as Jira, Confluence, draw.io and Gitlab.
– Acted as "subject-matter expert" for pipeline upgrade packages, controlling linux artifact releases for continued offline support with virtual integration testing suite.

Distruptive Cyber Security Researcher
BT Research and Innovation, Emerging Security Paradigms
06/2018 - 08/2020   *Adastral Park, Ipswich*

Achievements/Tasks
– Blockchain analytics, incorporating Apache Spark machine learning and Scala to analyse and classify complex data sets, automated in Jupyter notebooks.
– Nova - a polymorphic blockchain visualisation tool for forensics of blockchain applications previously incongruous structures. Express, Flask API and Postgres.
– Regularly lectured to High School and University schemes. Topics included Distributed Systems and Computer Science basics, for classes and year groups.
– Owner of patents encapsulating VR, continuous authentication, layer-mapping and machine-user display, contributing to the BT Security portfolio.

SKILLS

Python · Typescript · Linux · Docker · AWS CDK · Terraform · SQL · DevOps · System Architecture · Distributed Systems · Creativity · Resiliency · Positivity

REPORTS

The Key Determinants in the Price of Bitcoin: a Story in Speculation (06/2017 - 07/2018)
– Sponsored publication by the Laidlaw Scholarship.
– Connected social trend data with volatility, concluding valuation vulnerabilities of Bitcoin, uniquely modelling the quantitative price movements.

Automated Assessment of Procedurally Generated Graphical Level Content (06/2017 - 04/2018)
– Researching techniques for systematic random generation in C++ and Blueprint in the Unreal Engine.
– Spawns original material for game engines followed by an integrated AI for evaluating and subsequent alteration.

Simulation of Malware Propagation in Connected and Autonomous Vehicles (04/2020 - 08/2020)
– Mobius - a layer-based mapping tool, conceived to simulate malware in autonomous vehicles using SUMO. Applied to track COVID contacts and 5G mast arson investigations.
– Shortlisted for CogX 2020 AI Product of the Year and winner of E&T's Excellence in Cyber Security Award.

EDUCATION

Durham University - First Class Honours
BSc Computer Science and Economics
09/2016 - 06/2019

Outcomes
– President of University Dodgeball Team, organising weekly competitive games.
– Winner of Most Ambitious Hack and Best Use of Google Cloud Platform at Durhack2019, producing an automatic, parameter centric running router.
– Receiver of the 2019 Natural Sciences award for Outstanding Academic Achievement.

ACCOMPLISHMENTS

UK National Chess Finals (2006 - 2009)

Shortlisted for UK Ninja Warrior (2017)

Professional Stage Magician (2018 - 2020)

Commissioned 3D-Printed Brain MRIs (2021)