Peter Gilham

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- **Roles:** Data Engineer, DevOp, Platform Engineer, Site Reliability Engineer, Python Developer
- **Current Technologies**: Google Cloud Platform, Amazon Web Services, Kubernetes, Helm, Git, Terraform, Infrastructure as Code, Linux, Bash, Python, Docker, CICD, Pipelines, Databases, SQL, Prometheus
- **Passionate about**: Web3, DevOps, Decentralised Infrastructure, Deployments and living in Mexico!

Experience

SRE · crypto infrastructure (stealth startup) - Jun 2024 - Present **Remote - Contractor**
AWS, Cloudflare, OVH, Kubernetes, CockroachDB, Pulumi, Terraform, Datadog

SRE for a latency-critical MEV-protection and block-building platform. Own a multi-cloud estate across AWS, Cloudflare and OVH, running complex Kubernetes workloads and high-throughput, low-latency CockroachDB clusters tuned to MEV's tight timing windows. Codify infrastructure in Pulumi and Terraform. Built Datadog end-to-end, server-side instrumentation plus dashboards, and own monitoring, alerting and on-call incident response.

DevOps Engineer - Gnosis Builders - Gnosis Chain - Sep 2022 - Jun 2024 **Remote - Contractor**
AWS, Route 53, ECS, ECR, EC2, S3, Docker, Elastic Cloud, ICP, Fleek, Akash, GraphQL, IPFS

Deploying and maintaining websites, APIs and more complex deployments using mostly containers and some well maintained VMs as an AWS admin. Also doing the above but with decentralised infrastructure. Network security, internal and external VPCs, bot, ip reputation and DDOS protection and DNS administration. Create and maintain Terraform and build scripts. Ran a local Web3 Mexico community for Gnosis early adopters.

DevOps Engineer - Meld Ventures - Algorand Chain - Jan 2020 - Sep 2022 **Remote - Contractor**
GCP, Kubernetes, Helm, Terraform, Python, Docker, BigQuery, Github with Actions, GitLab, Prometheus, Grafana

Engineering infrastructure and code on the cryptocurrency blockchain Algorand for Meld Gold (stable coin), Algomint (wrapped coin minting) and Ettle DEX (decentralised exchange). GCP admin, Terraform scripting and Helm chart creation and deployments. Installed and provisioned databases, Git CI/CD pipelines, message buses and monitoring and alerting. On the on-call rota resolving Prod and Dev incidents. Advocate for incident retrospectives, automated testing and comms. Volunteer to run the online socials and team building events.

Dev Infrastructure Engineer - Royal Bank of Scotland - Jan 2018 - Jan 2020 **London - Contractor**
Linux, Amazon Web Services, Terraform, IaC, Spark, Kafka, Git

Managed Dev and UAT environments for around forty Dev teams with request and incident resolution tickets, databases and deployments. Delivered proof of concept AWS for non-critical infrastructure and helped application teams migrate from the on-premises datacenter to cloud. Version controlled terraforming the development clusters. Developed a self-service online web portal for anonymised point-in-time restores for UAT and load testing.

Prod Infrastructure Engineer - Credit Suisse - Jan 2015 - Dec 2017 **London - Contractor**
Linux, Oracle, MySQL, Jenkins, Ansible, ETL

Provisioned Prod ready infrastructure with an on-call support rota, ticketing and KPIs. Troubleshooting Prod incidents regarding infrastructure or databases across a vast estate of thirty thousand employees. Fast paced environment that required significant communication with other stakeholders. Many migrations and Prod fixes applied out of hours and on weekends. Produced database designs, schema refactors, ETL tools and custom utils.

Data Engineer - Barclays Capital - Jun 2011 - Dec 2014 **London - Employee**
Linux, Oracle, Python, Hadoop

Assigned to the Front Office trade capture system (clustered hardware with high volume feeds and complex ETL) in the high-pressure environment of the trading floor. Promoted to VP of Technology for improvements to the platform. Architect and dev of a risk tenor data warehouse with backup and archiving. Modelled and developed reporting layer with analysts. Leadership position, mentoring three new members into the team.

Dev Infrastructure Engineer - Sky Group - Jan 2008 - Jun 2011 **London - Employee**
Linux, TeamCity, Puppet, Git, CI/CD

Resolved requests and incidents for Dev infrastructure and databases. Adding new infrastructure, build automations and code reviews. Started an early focus on DevOps and Agile TDD here. Introduced continuous integration with pipelines and automated build servers that sent visual commit feedback to developers

Consultant - BAE Systems - Dec 2005 - Dec 2007 **London - Employee**
Java, PL/SQL, Linux, Analytics, SC Clearance

Consulted for a wide range of digital Defence and National Security clients in a customer facing role. Giving an early introduction into a wide range of enterprise platforms, technologies and programming languages.

Education - University of Nottingham - Sep 2001 - Oct 2005 - Master of Science - Physics 1st with honours