Andrew Gelnar

Platform Engineering Manager, London   apgelnar@gmail.com

A seasoned cloud infrastructure professional with extensive experience leading and managing high-performance teams. Skilled in designing and deploying cloud infrastructure solutions, managing projects, and ensuring compliance with industry best practices.

Skills

Advanced	AWS, Terraform, Python, Bash, SQL, Git, Databricks, Cloud architecture,
Proficient	Docker, GitHub, Okta, CI/CD practices, SRE, Automated Testing, Project Management, People Management
Intermediate	Kubernetes, Helm, Apache Kafka, Apache Spark, Redis, SQLite, Postgres, NGINX, Linux

Employment History

March 2021 to present | **MatchesFashion**
Principal Platform Engineer, Engineering Manager

Technologies and skills AWS, Databricks, spark, Terraform, GitHub, Apache Kafka, Lucid Chart, Excalidraw, Okta, system design, People Management, Project Management

- Managed the Data Platform team and the Network Infrastructure team, defining the teams' roadmaps and liaising with stakeholders in the greater tech team. This also involved mentoring more junior engineers expanding their skillsets into cloud engineering as well as Engineering Enablement practices.

- Sat across the entire tech department as an SME for AWS and other cloud services, notably advising our security functions for cloud and information security. Filled a partially operational role managing some of Matches' suite of cloud products including GCP, Okta, LastPass, and various DNS providers.

- Was responsible for all aspects of the Data team's cloud infrastructure and completely redesigned the setup of networking, IAM, and S3 to make security a core part of our use of these services.

- Lead the design of the new Databricks based Datalake, focusing on resiliency, security, and compliance. Designed resilient pipelines for event-driven file ingestion (using S3, SQS, and Lambda) and event-sourced ingestion (Apache Kafka, Databricks, and Spark).

- Recovered a migration project to replace VPC Peering in favour of AWS Transit Gateway, after all previous team members on the project resigned. Managed the integration of this new inter-VPC network with our corporate SD-WAN network.

- Reorganised the Infra team away from being a ticket-based service team to a project lead team, to achieve predictable and consistent delivery on project based work.

- Designed and managed the creation of a self-service project for the Data Engineers to speed up initial project creation, whilst ensuring security of CI/CD and Application setups through specific and least-privileged access principles. This reduced the initial setup of Databricks-based projects for the data engineers from up-to two weeks to a day.

Jul 2019 to Feb 2021 | **OakNorth**
Head of Infrastructure

Technologies and skills Terraform, AWS, Helm, Docker, Kubernetes, AzureAD, GitHub, DataDog, PagerDuty, Lucid Chart, system design, Management

- Initially joined as an IC in the Cloud Infrastructure team, which I subsequently managed. This involved working with stakeholders across all of engineering to establish the team's roadmap taking into account dependent teams' individual roadmaps.

- Rebuilt our single tenancy client platform infrastructure to have CI/CD and automated processes for creating and updating client environments, replacing slow and error prone manual processes.

- Worked closely with Security and Compliance to ensure infrastructure and applications adhered to industry best practices and handled client data appropriately, involving being a key reviewer for designs/changes involving data.

- Instigated and managed our access control procedures for the engineering department to fill a shortfall in compliance, and worked with IT to harden our security with better SSO integrations, and utilisation of AzureAD's auto-provisioning with SCIM wherever possible.

- Performed on call duties and worked closely with the heads of engineering and product support to refine our incident handling policies. Also heavily involved with our incident postmortem process, ensuring we performed useful and productive investigations with actionable outcomes.

May 2018 to **Jun 2019**	**Red Ventures** *Senior Engineer*

Technologies and skills Terraform, AWS, GCP, Golang, Kubernetes, Apache Kafka

- Joined to help build and run cloud infrastructure team, working with several engineering teams in the US to bring RV's tech stack to the EU. Authored and maintained reusable Terraform configuration to support migrating suites of microservices in AWS cloud.

- Migrating these systems involved working closely with the Security and Compliance departments from both the UK and the US to ensure they adhered to local UK and EU legislation (GDPR, PECR, e-privacy, etc).

- Created initial infrastructure for Bankrate UK's initial launch, and worked to migrate it from a statically generated site in AWS S3 to an application hosted in GCP's Kubernetes engine GKE.

- Moved to work with the Data Services team of our new operating partner (ZPG Comparison - uSwitch & money.co.uk) following a structural change in the business. This involved creating a new secure real-time event pipeline using Apache Kafka and AWS' DynamoDB, written in Golang.

May 2016 to **May 2018**	**Condé Nast Britain** *Software Engineer*

Technologies and skills Python (Flask, SQLAlchemy), Postgres, Redis, RabbitMQ, Docker, AWS

- Responsible for backend and infrastructure taking over the migration to AWS ECS.

- Created new read-only API to decrease site load times. Also created and fixed caching site-wide using Redis to solve periodic site outages related to releases and cache space changes.

- Worked with the Product and Front-End teams to design extensible data models for modeling editorial content, and basic design of back-office CMS interfaces.

- Instigated new Git workflows and release processes to scale with growing numbers of engineers. Worked on extending our in-house build and deploy tool *Brickyard* in support of these processes.

Jun 2012 to **May 2016**	**Geneity Ltd. (part of Playtech Sports)** *Software Developer*

Technologies and skills Python, Oracle, SQLite, Memcache, Redis, RabbitMQ, Bash, Git, Docker, docker-compose, HTML, CSS, JavaScript

- Worked on backend and APIs. Member of the the operations team providing 1st-3rd line support for all systems.

- conducted technical interviews, mentored new starters, and managed of a small development team.

Education

BSc (Hons) in Computer Science 2:1 - The University of Manchester
A Levels: Maths A, Computing B, physics B, Chemistry C; **AS Levels**: Philosophy D; **GCSE**: Maths: A*, Statistics: A*, English (Lang): A, English (lit): B, Science (double award): AA, Music: A, German: A, IT: A, Religious Studies: C