Delphine Aubert Principal GCP Engineer

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PROFILE SUMMARY

- **Principal GCP Engineer** with **14 years** in infrastructure, the last 4 setting Google Cloud standards for **clearing and market data** workloads at a global derivatives exchange.
- Works across the **resource hierarchy**, **Shared VPC** and **Cloud Interconnect**, **VPC Service Controls**, **GKE**, **BigQuery** and **Terraform**, and holds the **Professional Cloud Architect** certification.
- Known for **landing zones that hold up in audits**, **low-latency hybrid networks** and **staged migration plans** with a tested rollback path for every regulated workload.
- Partners with the **CISO's team**, **enterprise architecture** and **Google Cloud customer engineers** on design decisions, risk sign-off and the yearly cloud roadmap.
- Chairs the cloud **architecture review board**, mentors **6 senior engineers**, and wrote the reference architectures that teams start from when they move to Google Cloud.

TECHNICAL SKILLS

Compute & Serverless:	GKE Enterprise, GKE Standard, Compute Engine, Cloud Run
Networking & Edge:	Shared VPC, Dedicated Interconnect, Private Service Connect, Cloud DNS, Cloud Load Balancing
Identity & Security:	VPC Service Controls, Cloud KMS (CMEK), Access Approval, Cloud IAM, Organization Policy Service
Data & Storage:	BigQuery Enterprise Plus, Spanner, Cloud Storage, Pub/Sub, Dataproc
IaC & CI/CD:	Terraform, Cloud Deploy, Binary Authorization, Artifact Registry, GitHub Actions
Observability & FinOps:	Cloud Monitoring, Cloud Logging, Prometheus, committed use discounts, BigQuery reservations
Languages & Certifications:	Python, Go, SQL, Professional Cloud Architect, Professional Cloud Network Engineer

EDUCATION

University of Illinois Urbana-Champaign — B.S. in Computer Engineering — Urbana, IL · Aug 2008 to May 2012

Google Cloud — Professional Cloud Architect — Chicago, IL · Sep 2022

WORK EXPERIENCE

CME Group — Principal Cloud Engineer (GCP) — Chicago, IL · Apr 2022 to Present

- Designed the folder and project layout for the clearing and market data products, with organization policy constraints and a **Terraform** project factory now used by **30** engineering teams.
- Led the network design for the market data platform on Google Cloud, with Shared VPC, Dedicated **Cloud Interconnect** to the on-prem data centers and Private Service Connect, holding p99 internal latency at **4 ms**.
- Wrote the security architecture for regulated workloads with the CISO's team, covering **VPC Service Controls**, CMEK in **Cloud KMS** and Access Approval, which cleared **2** external audits with no cloud findings.
- Set the **BigQuery** edition and reservation plan for 14 data teams leaving on-prem Hadoop, keeping end-of-day risk reports inside their window while cutting slot spend by **22%**.
- Set the **GKE** and Cloud Deploy standards for teams moving to Google Cloud, with Binary Authorization enforced on every cluster, and reviewed **60+** designs a year on the review board.

Grainger — Senior Cloud Engineer — Lake Forest, IL · Jun 2012 to Mar 2022

- Built the monitoring and on-call setup for the ecommerce platform's Linux and Kubernetes hosts with **Prometheus** rules tied to customer impact, cutting pages per week from **140 to 35**.
- Led the move from hand-built VMware VMs to **Terraform** for **300+** services, then moved the first 40 of them to public cloud with the same modules.
- Ran capacity planning for 2 data centers and retired idle hosts before each hardware refresh, cutting the refresh budget by **$1.8M**.