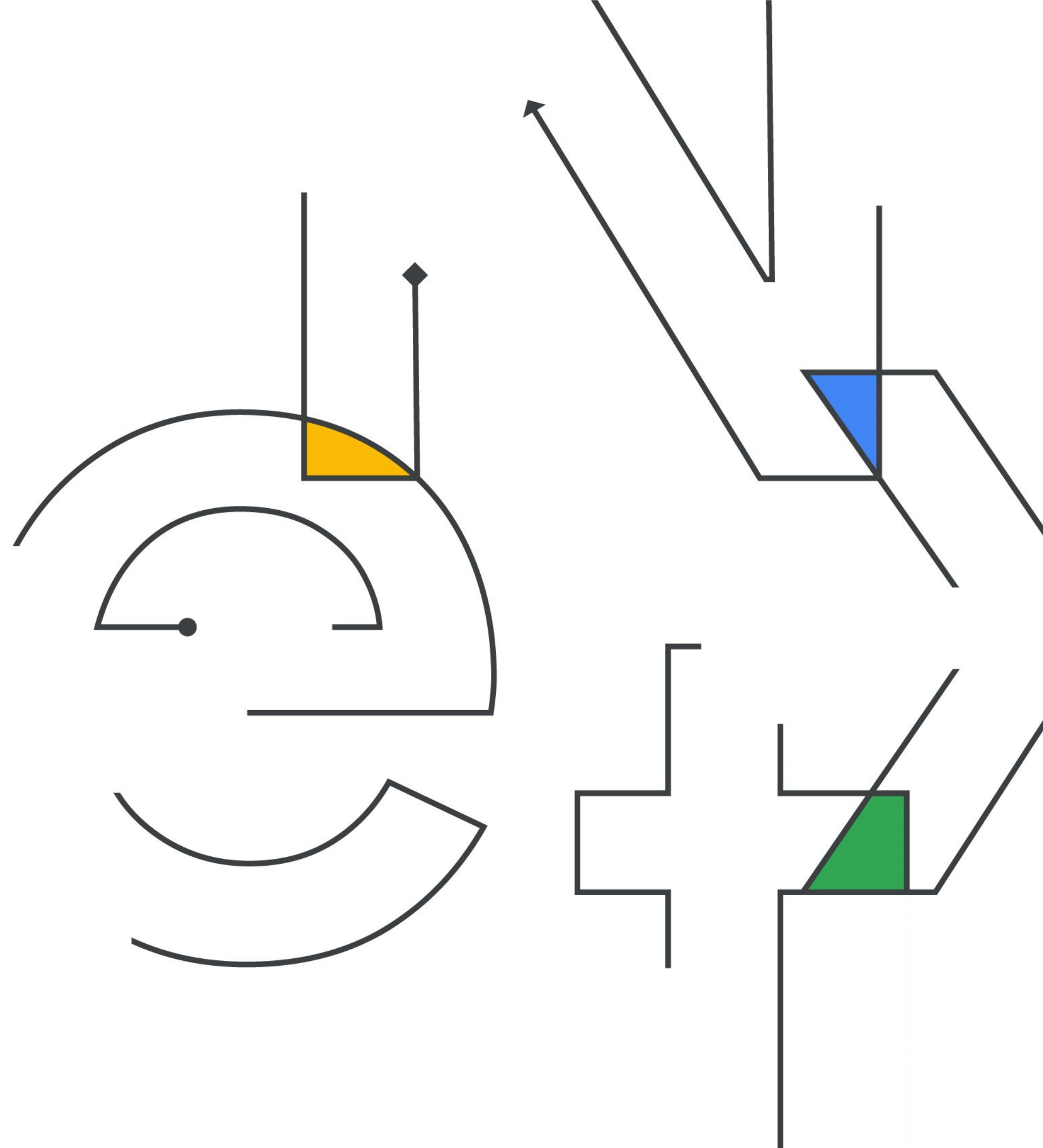Google Cloud

Next '22

Build your data career

with Google Cloud Credentials

Oct/
11–13

Emma Freeman

Learning Portfolio
Manager, Data
Google Cloud

Josue (Sway) Fontanez

Outbound Product Manager,
Databases
Google Cloud

Agenda

Google Cloud

Google Cloud Certifications
Overview
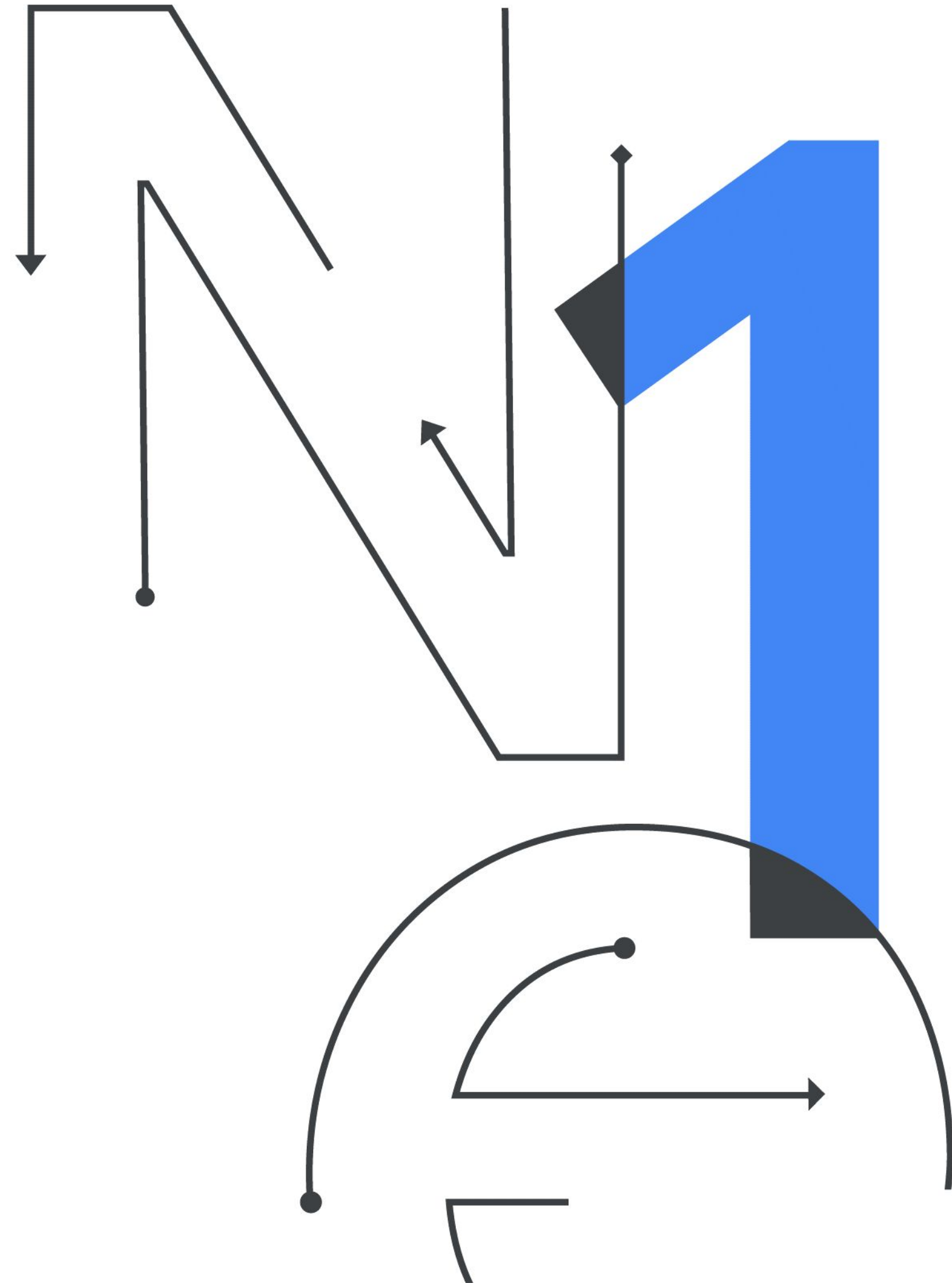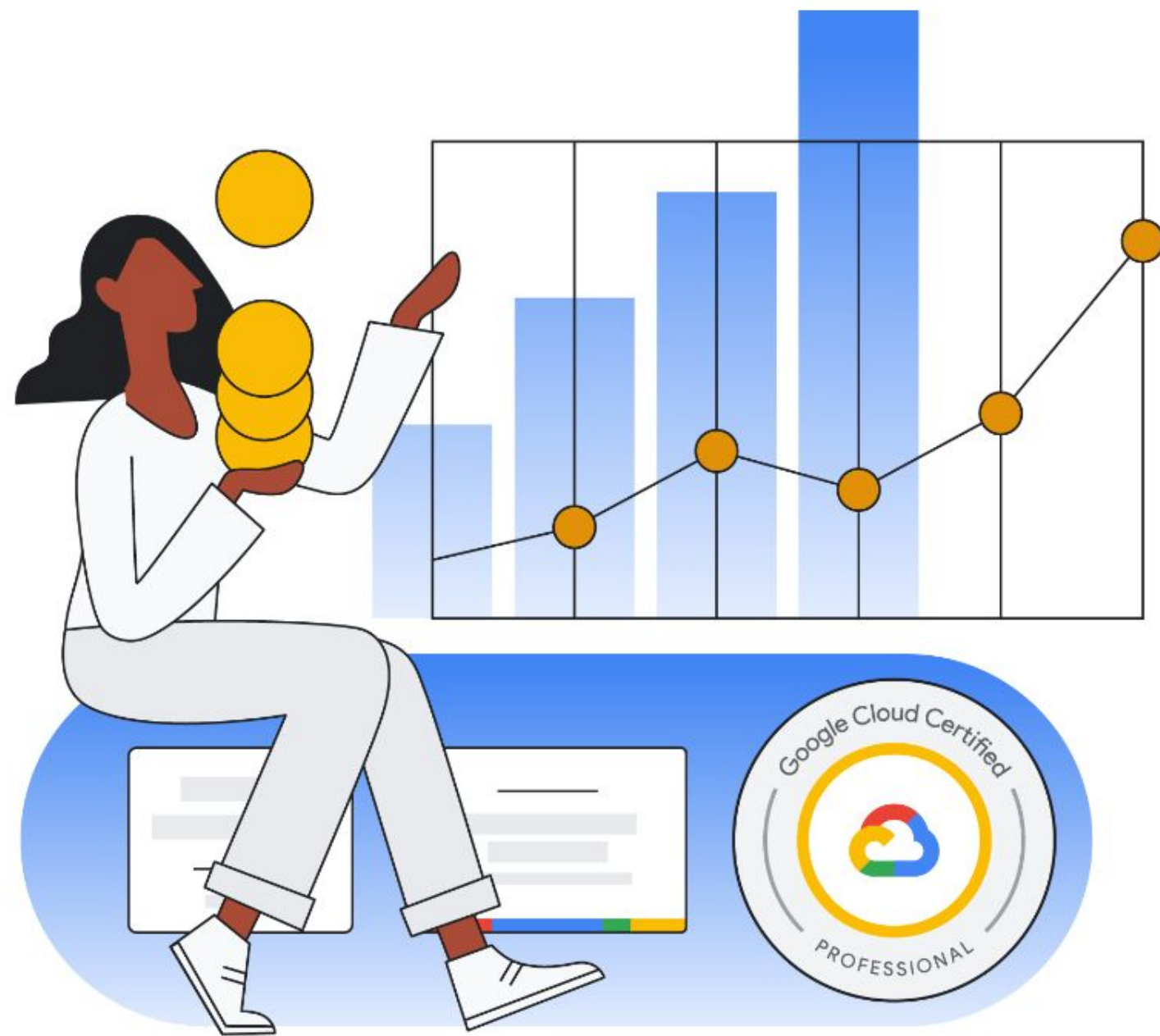
Demonstrate your cloud knowledge and stay ahead of the curve with Google Cloud credentials and certifications.

Stand out with Google Cloud certification

87%

Hiring managers value hands-on experience and certifications over a university degree when evaluating candidates.
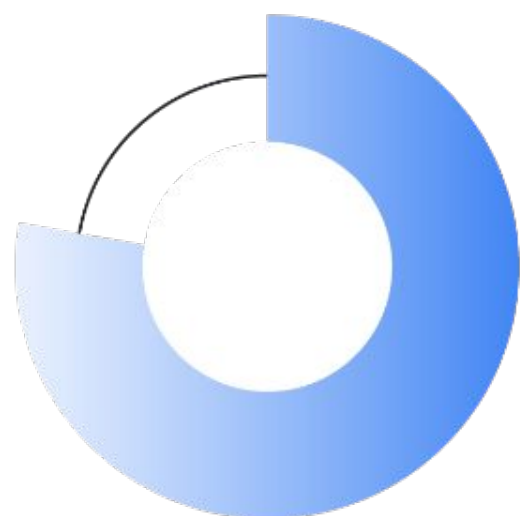

82%

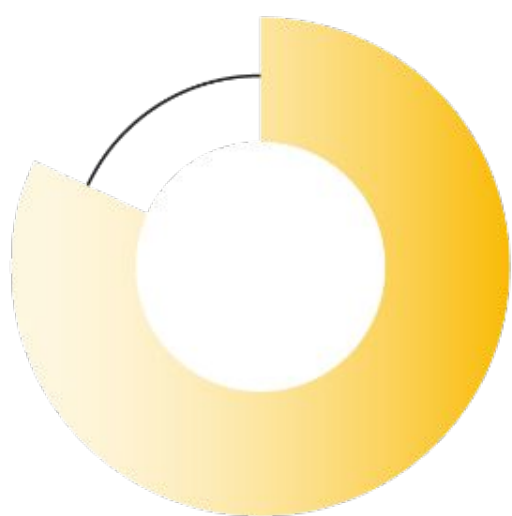Hiring managers say that cloud certifications make a candidate more attractive.

Google Cloud

Cloud Certification Program Impact

78%

Feel more confident in professional future

82%

Can prove cloud skill competency to recruiters
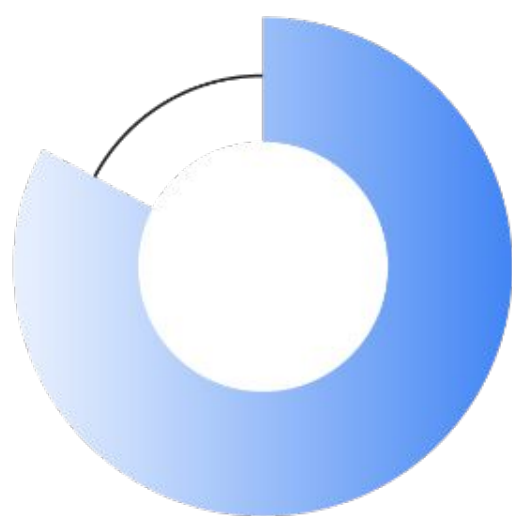
83%

Feel resume is more attractive
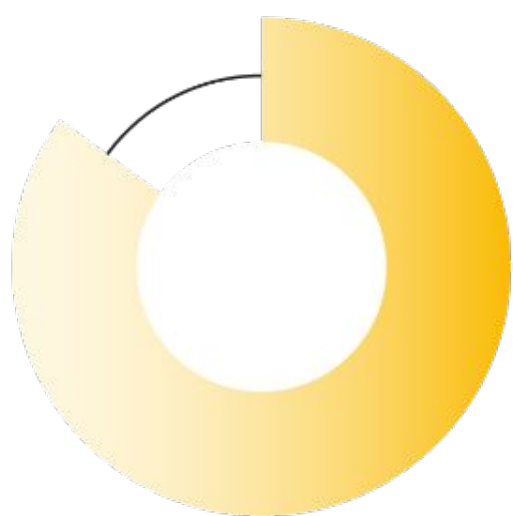
85%

Feel more confident in cloud skills

Percentages indicate those who strongly or somewhat agree' with the statement. Findings from survey conducted with Google Cloud Certified individuals in February 2020 by an Independent Third Party Research Organization.

Google Cloud

Professional Database Engineer Certification

Professional Cloud Database Engineer
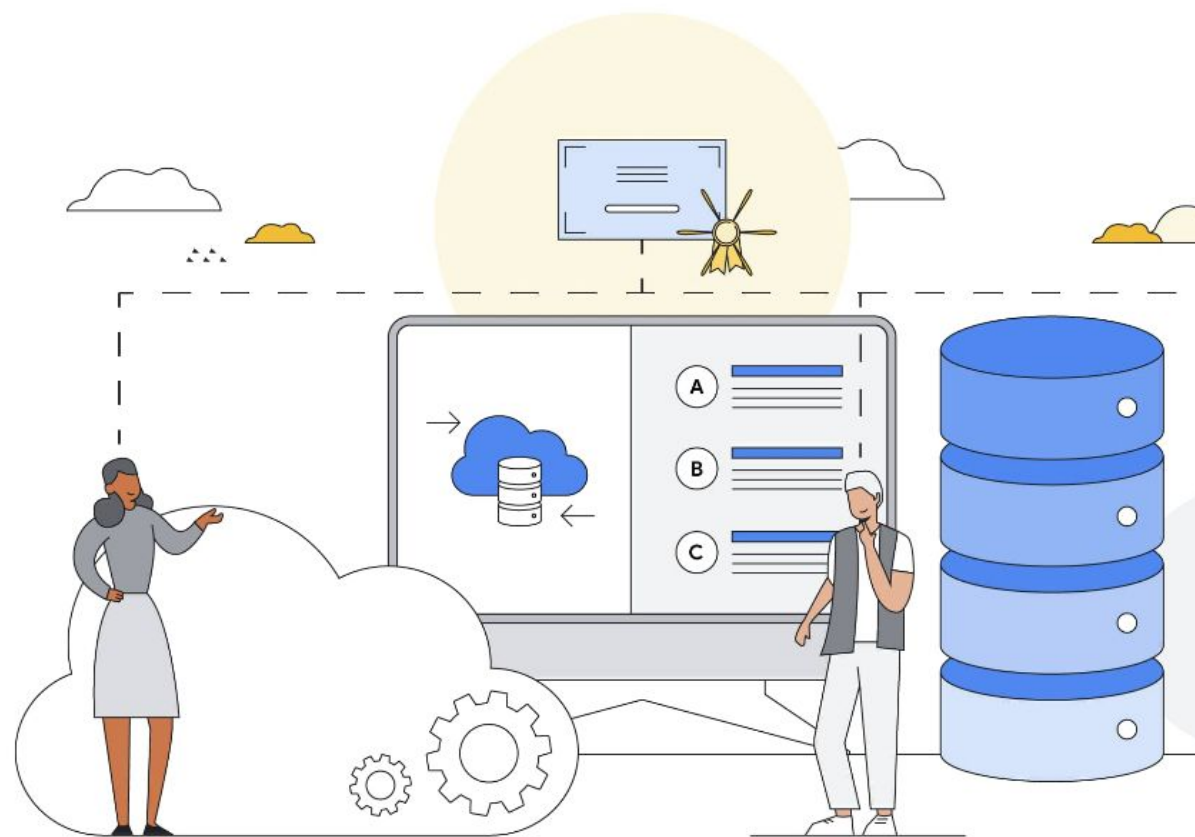
- Database modernization, migrating from on-premises to managed cloud services

- Changing data management products, roles, skills

- High demand for cloud database expertise

Google Cloud
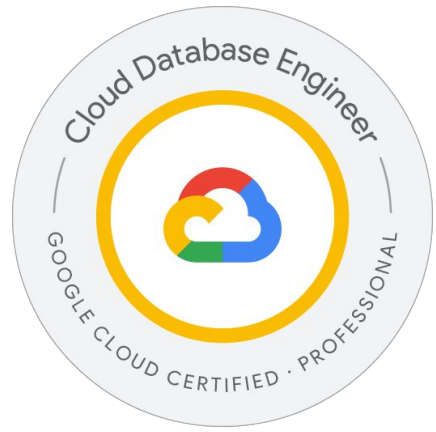
Professional Cloud Database Engineer

Assesses your ability to:

- Design scalable and highly available cloud database solutions

- Migrate data solutions

- Manage a solution that can span multiple database solutions

- Deploy scalable and highly available databases in Google Cloud

Why get certified as a
Google Cloud Database Engineer?

Data Management

Database Engineer

Overview
A Database Engineer designs, creates, manages, migrates, and troubleshoots databases used by applications to store and retrieve data.

What will you learn
- Google Cloud storage and database services
- Data migration and replication strategies

Google Cloud

Google Cloud Fundamentals: Core Infrastructure | ⧗ 1 DAY   DS CO PS SB

Enterprise Database Migration | ⧗ 4 DAYS   DS CO PS SB

Migrate MySQL data to Cloud SQL using Database Migration Service   SB

Manage PostgreSQL Databases on Cloud SQL   SB

Create and Manage Cloud Spanner Databases   SB

Manage Bigtable on Google Cloud   SB

Professional Cloud Database Engineer Exam Guide   🔗

Professional Cloud Database Engineer   🔗

Google Cloud

Professional Data Engineer

Professional Data Engineer

- Designs, builds, maintains, and troubleshoots data processing systems

- Supports data teams to gain insights from data, inform business processes and decisions

- Provides data pipelines for machine learning

- Highly sought after skills

Data Engineer
GOOGLE CLOUD CERTIFIED · PROFESSIONAL
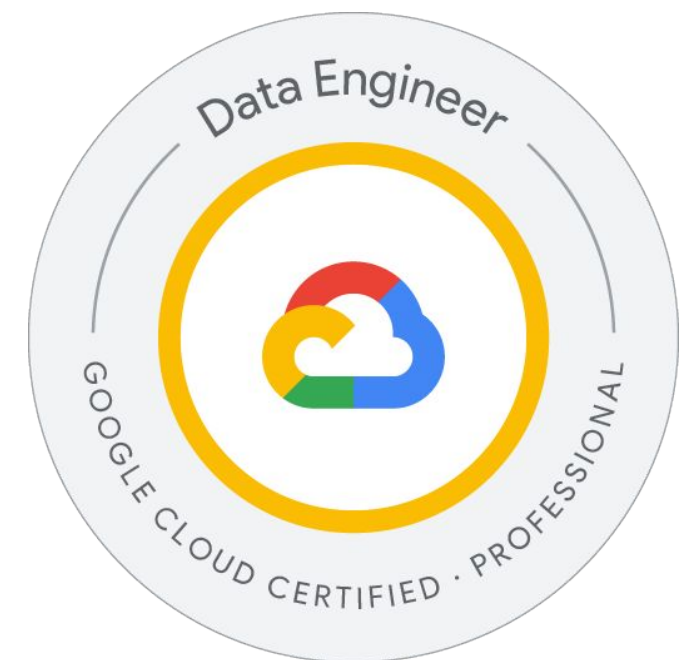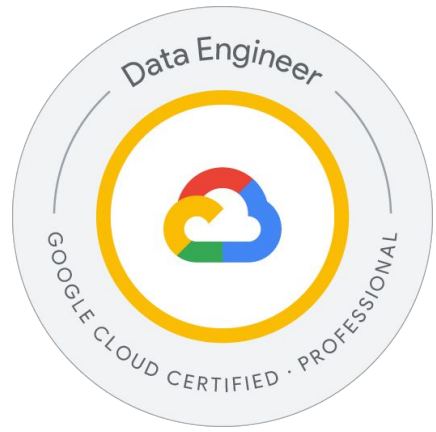
Google Cloud

Professional Data Engineer

Assesses your ability to:

- Design data processing systems

- Build and operationalize data processing systems

- Operationalize machine learning models

- Ensure solution quality

Why get certified as a
Google Cloud Data Engineer?

Data Analytics

Data Engineer

Overview
A Data Engineer designs and builds systems that collect and transform the data used to inform business decisions.

What will you learn
- BigQuery, Dataflow, Cloud Data Fusion, Cloud Composer, Pub/Sub, batch and stream processing
- Dataproc, workload migration, and more

🔵 On-demand	DS Data Sheet
🟢 Virtual and in-person Classroom	CO Coursera
⭐ Skill badge	PS Pluralsight
✓ Self-paced Labs	SB Skills Boost
🟥 Resource	Public Classroom Schedule

Google Cloud

LINKS ↓

Google Cloud Big Data and ML Fundamentals | ⚅ 1 DAY   DS CO PS SB

Data Engineering on Google Cloud | ⚅ 4 DAYS   DS CO PS SB

Google Cloud Big Data and ML Fundamentals   CO PS SB

Modernizing Data Lakes and Data Warehouses with Google Cloud   CO PS SB

Building Batch Data Pipelines on Google Cloud   CO PS SB

Building Resilient Streaming Analytics Systems on Google Cloud   CO PS SB

Smart Analytics, Machine Learning, and AI on Google Cloud   PS SB

Serverless Data Processing with Dataflow | ⚅ 3 DAYS   DS CO PS SB

Serverless Data Processing with Dataflow: Foundations   CO PS SB

Serverless Data Processing with Dataflow: Develop Pipelines   CO PS SB

Serverless Data Processing with Dataflow: Operations   CO PS SB

Data Integration with Cloud Data Fusion | ⚅ 2 DAYS   DS

Perform Foundational Data, ML, and AI Tasks in Google Cloud   SB

Build and Optimize Data Warehouses with BigQuery   SB

Engineer Data in Google Cloud   SB

Preparing for the Professional Data Engineer Exam | ⚅ 1 DAY   DS CO PS SB

Professional Data Engineer Exam Guide   🔗

Professional Data Engineer Sample Questions   🔗

Professional Data Engineer   🔗

Google Cloud

Professional Machine Learning Engineer Certification

Professional Cloud Machine Learning Engineer

- Designs, builds, and productionizes ML models

- Knowledge of ML models and techniques, architecture, data pipelines, metrics, production systems

- Responsible AI

- Scalable, optimal performance solutions

Google Cloud

Professional Machine Learning Engineer

Assesses your ability to:

- Frame ML problems

- Architect ML solutions

- Design data preparation and processing systems

- Develop ML models

- Automate and orchestrate ML pipelines

- Monitor, optimize, and maintain ML solutions

Why get certified as a
Google Cloud ML Engineer?

ML and Artificial Intelligence

ML Engineer, Data Scientist

Overview
A Machine Learning Engineer designs, builds, productionizes, optimizes, operates, and maintains ML systems.

What will you learn
- TensorFlow, AI Platform Notebooks, Cloud Dataflow, Cloud DataFusion, AI Platform;
- BigQuery, BigQuery ML, and more.

Legend
- 🔵 On-demand
- 🟢 Virtual and in-person Classroom
- ⭐ Skill badge
- 🟠 Self-paced Labs
- 🟥 Resource
- DS Data Sheet
- CO Coursera
- PS Pluralsight
- SB Skills Boost

Public Classroom Schedule

Google Cloud

Google Cloud Big Data and ML Fundamentals | ⏳ 1 DAY — DS CO PS SB

Machine learning on Google Cloud | ⏳ 5 DAYS — DS CO PS SB
- How Google Does Machine Learning — CO PS SB
- Launching into Machine Learning — CO PS SB
- Introduction to TensorFlow — CO PS SB
- Feature Engineering — CO PS SB
- Machine Learning in the Enterprise — CO PS SB

Advanced Solutions Lab (ASL) | ⏳ 5 WEEKS — 🔗

OR

Advanced Machine Learning with TensorFlow on Google Cloud | ⏳ 5 WEEKS — DS CO PS SB
- End-to-End Machine Learning with TensorFlow on GCP — CO PS
- Production Machine Learning Systems — CO PS SB
- Image Understanding with TensorFlow on GCP — CO PS SB
- Sequence Models for Time Series and NL Processing on Google — CO PS SB
- Recommendation Systems with TensorFlow on Google Cloud — PS SB

ML Ops Fundamentals | ⏳ 3 WEEKS — DS CO PS SB

ML Pipelines on Google Cloud | ⏳ 4 DAYS — DS CO PS SB

Perform Foundational Data, ML, AI Tasks in Google Cloud — SB

Build and Deploy ML Solutions on Vertex AI — SB

Professional Machine Learning Engineer Exam Guide and Sample Questions — 🔗

Professional Machine Learning Engineer
🔗

Continue your cloud learning journey

Complete #GoogleClout challenges today

Throughout NEXT race to complete the 6 challenges in the #GoogleClout game before time runs out and share your scores on social media using the #GoogleClout hashtag!

- Complete the 6 challenges by October 13 to earn a special digital badge, plus an e-copy of Priyanka Vergadia's bestselling book "Visualizing Google Cloud".

Visit the DevZone to get started.

New learners, begin your 30 days no-cost training trial

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- Labs, quests, courses, and skill badges.
- Google Cloud certification preparation resources.

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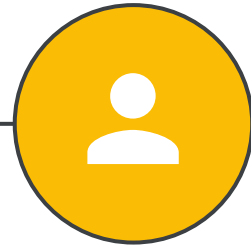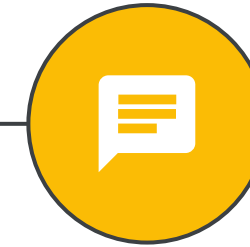Start your Google Cloud Skills Boost annual subscription to learn in-demand cloud skills and unlock Innovators Plus benefits from Google Cloud.

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Thank you