

Carter K. Richard

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Experience

GCP Data Engineer

Remote

66 DEGREES, LLC

January 2022 - May 2023

- Named Data Services MVP in November of 2022 for outstanding work in retaining a mission-critical client from the logistics industry.
- Led a team of 3 technical personnel in developing architecture and supporting documentation for an awarded solution proposal.
- Independently sought and achieved certification as a GCP Professional Data Engineer & Professional Machine Learning Engineer.

Data Analyst

Remote

DELOITTE CONSULTING, LLP

June 2020 - December 2021

- Implemented a RESTful API endpoint to enable enhanced reporting at the Department of Homeland Security (DHS-PARM)
- Designed and deployed a PowerBI tenancy for real-time financial insights over approximately \$1.2M in federal appropriations.
- Conducted continuing education classes for Deloitte 'Community of Practice' cohorts in advanced data visualization using R.

Clinical Engineer

Orlando, FL

ADVENTHEALTH

May 2019 - May 2020

- Delivered on-call technical troubleshooting and repair services to clinical staff, including emergency and surgical equipment.
- Identified and located over 500 medical infusion pumps with a misconfigured networking interface using applied data analysis.
- Developed and deployed a business intelligence dashboard for medical device maintenance supporting over 10K active assets.

Education

Rollins College

Winter Park, FL

B.A. IN PHYSICS, MINORS IN ENGLISH & MUSIC

August 2013 - May 2018

Research in acoustic signal analysis, visualizing and modeling the mechanical properties of oscillatory motion in musical instruments.

Portfolio

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|--------------------------|--|
| USDA-FDC Explorer | Query engine for the USDA FoodData Central dataset (1.9M records) with a Streamlit front-end and Snowflake back-end. |
| vex-mythoclast | Web-scraping over 1M users in containerized R to reverse-engineer an online video-game's rare item drop rates. |
| calcifer.cloud | Portfolio website/home-lab for secure and private web service hosting with Jekyll, Docker, Cloudflare. |

Proficiencies

- | | |
|-------------------------------|---|
| Google Cloud Platform | BigQuery, Compute Engine, Cloud Storage, Cloud SQL, Dataflow, Vertex AI, Cloud Run, Cloud Functions |
| Project Management | Version control, CI/CD, Agile methodology, Scrum framework, systems analysis, implementation planning |
| Tools & Frameworks | Google Cloud SDK, Snowflake, Terraform, Docker, Git, PowerBI, Streamlit, Shiny, Flask, Jupyter, Tidyverse |
| Coding Languages | Python (esp. Pandas), R, SQL (GoogleSQL, SnowSQL, PostgreSQL, MySQL), C#, HTML/CSS, Shell, Bash |
| Data Engineering | Extract-Transform-Load (ETL), data migrations, batch & streaming pipelines, machine learning (esp. MLOps) |
| Data Analysis | Exploratory Data Analysis (EDA), data modeling, forecasting, automated reports, interactive dashboards |

Accreditations

Google Cloud Platform

CERTIFIED PROFESSIONAL DATA ENGINEER, CERTIFIED PROFESSIONAL MACHINE LEARNING ENGINEER

March 2020 - Oct 2024

Constitutes extensive understanding (3+ YOE) of GCP data services, especially in the architecture, implementation, management, and cost-optimization of production-ready data processing services and machine learning models equipped to securely operate at scale.

Snowflake

HANDS-ON ESSENTIALS: DATA WAREHOUSING, DATA APPLICATION BUILDER, DATA ENGINEERING

November 2023

Demonstrates capabilities using SnowSQL, the Snowflake Cloud, ETL & DBMS tools, and webapp framework integration (such as Streamlit).

ActiveLoop (in collaboration with Intel & TowardsAI)

GENAI 360 - LARGE LANGUAGE MODELS & VECTOR DATABASES IN PRODUCTION

October 2023

Demonstrates advanced understanding of Generative AI tools and techniques: OpenAI, LLMs, LangChain, retrieval-augmented generation (RAG).

References available by request