

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 providing outstanding customer service to retain a mission-critical client relationship with **Old Dominion Freight Line (ODFL)** by supporting a *FiveTran* implementation for change-data capture (CDC) from an on-premises database.
- Led a team of 3 technical personnel to develop an end-to-end solution architecture proposal with supporting documentation for a nonprofit's Google Analytics data migration at **Wounded Warrior Project**, which resulted in an awarded contract and net-new client relationship.
- Independently sought and achieved certification as a *GCP Professional Data Engineer & Machine Learning Engineer* to support Google Premier Partner recognition, supporting organizational initiatives and further delineating **66degrees, LLC** as a best-in-class GCP consultancy..

Data Analyst

Remote

DELOITTE CONSULTING, LLP

June 2020 - December 2021

- Conducted data model analysis and implemented a RESTful API endpoint in the *Python Flask* framework for enhanced business intelligence as part of the proof-of-concept architecture for the ADaPTS reporting system at the **Department of Homeland Security (DHS)**.
- Designed and deployed a *Microsoft PowerBI* tenancy at **DHS** for real-time financial insights over approximately \$1.2M in federal appropriations, alleviating client pain points in complex reporting workflows for complex data cleaning and transformation processes.
- Developed curriculum and conducted continuing education classes for Deloitte 'Community of Practice' cohorts in advanced data visualization using the *rayshader* and *ggplot* packages in *R*, teaching peers how to easily write their own bespoke business intelligence visualizations.

Clinical Engineer

Orlando, FL

ADVENTHEALTH

May 2019 - May 2020

- Delivered on-call technical troubleshooting and hardware repair services to clinical staff, including emergency and surgical equipment such as cardiac defibrillators, real-time patient bio-monitors, uninterrupted power systems (UPS), and medical infusion pumps.
- Identified over 500 misconfigured medical infusion pumps with erroneous networking IDs through *applied data analysis* and located physical devices across hospital campuses by tracking their Wi-fi signal strength and employing *Real-time Location Systems (RTLS)* methodology.
- Developed and deployed a business intelligence dashboard integrated with the organizational *Oracle* database using the *R Shiny* framework for medical device maintenance supporting over 10K active assets, enabling automated reporting and ensuring patient safety.

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

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 parallel R containers to reverse-engineer an online video-game's rare item drop rates.
https://calcifer.cloud	Portfolio website/homelab endpoint 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 of GCP data offerings and 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.

References available by request