

# Alex Socarras

Data Engineer



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## ETL Pipelines

Python (Pandas, PySpark)

Apache Airflow

Data Build Tool (DBT)

REST APIs Web-Scraping

CDC/Real-Time Data

Data Modeling

Dashboards EDA

## Cloud Data Services

Google Cloud Platform:

Cloud Functions

Cloud Scheduler

Cloud Composer

Looker Studio Vortex AI

Amazon S3 SDK

## Databases

SQL MySQL BigQuery

## Other Skills

Git Bash Linux R

HTML/CSS JS

Time-Management

Pair-Programming

Test-Driven Development

## Summary

Freshly-minted data engineer graduating from the Data Engineering Track at Epicodus, a full-time software development bootcamp. Past professional experience in data analytics and research in public health.

## Experience

Research Assistant & Private Tutor — Self-Employed

May 2021 - October 2022

- Provided private tutoring in mathematics, language arts, and standardized testing.
- Performed while completing college coursework online in advanced mathematics and further contributing to research projects in public health as a data analyst.

Research & Data Coordinator — SAMS Foundation

May 2020 - May 2021

- Act as data management, analysis, and visualization lead using R for three long-term research projects, two of which are pending publication in BMJ Global Health.
- Create mapping program using R's Shiny package to visualize attacks on healthcare facilities in Northwest Syria.
- Update and maintain Microsoft Power BI dashboards interfacing with internal MySQL database.
- Liaison with external research partners and academic institutions, providing logistical support and securing data transfers with encryption best practices.

Advocacy & Outreach Coordinator — SAMS Foundation

November 2019 - May 2020

- Translate written and audio source materials from both colloquial and formal Arabic into fluent English.
- Provide research and editing support for reports, memos, and social media posts.
- Interface with other NGOs in regular working-group meetings, policy forums, and situation debriefs.

## Projects

**alaska-etl** · <https://github.com/apsocarras/alaska-etl>

ETL web-scraping pipeline to compare NWS forecasts for Alaska against USCRN weather data.

Python Airflow SQL GCP (BigQuery, Cloud Functions, Cloud Scheduler, Looker Studio)

**city-crime** · <https://github.com/apsocarras/city-crime>

ELT pipeline using city crime data sourced from Kaggle datasets.

Python SQL DBT GCP (BigQuery, Looker Studio)

**dc-bike** · <https://github.com/apsocarras/dc-bike>

ETL pipeline using DC's Capital Bikeshare API and Open Data DC data portal.

Python SQL GCP (BigQuery, Cloud Functions, Cloud Scheduler, Looker Studio)

## Education

**Epicodus/Data Stack Academy**

Full-time Bootcamp — Data Engineering

October 2022 - March 2023

**University of Virginia**

Echols Scholar Program — Arabic and Philosophy (BA)

August 2015 - May 2019