SCOT ITAKURA

DATA ENGINEER | OAKLAND, CALIFORNIA | 909.684.1552

° CONTAC °

Oakland
California
909.684.1552
scot.itakura@gmail.com

° ABOUT ME °

I am a Data Engineer who is integrating a deep, technical background of geophysical engineering to build data intensive applications, manage cloud data structures, and develop efficient data pipelines.

° LINKS °

LinkedIn

Portfolio

GitHub

° SKILLS °

Google Cloud Platform

SQL

Python / SciPy

Linux

JavaScript

MATLAB

Microsoft Excel

Problem Solving

Decision Making

Time Management

Leadership

Communication

Adaptability

Quick Learner

Teamworker

Ability to Multitask

Ability to Work Independently

PROJECTS

Novel Emotion Analysis - GitHub

- Deployed an emotion analysis data pipeline and dashboard on Google Cloud Platform.
- Pipeline is orchestrated with Prefect (similar to Airflow), data is consumed through a Python package, processed data is stored in a MySQL database, and data is visualized with Google Data Studio.

Weather Collector App - GitHub

- Designed a live weather data collector web app that periodically extracts data from an API, transforms and processes it, and loads that data onto a SQLite database.
- Utilized Tableau to create clean and comprehensible visuals.

EDUCATION

Data Warehouse Fundamentals, Udemy
2022

- Mastered the techniques needed to build various architectures of data warehouses.
- Applied the key design principals of dimensional data modeling.
- Combined various models and approaches to unify and load data within a data warehouse.

Full-Stack Web Development Certificate, University of California, Berkeley
2020

- Covered full stack web development, version control with Git, databases including MongoDB and MySQL, and Object Oriented Programming.

Geophysical Sciences, B.Sc., University of California, Santa Cruz
2014 — 2018

- Established a strong and impassioned programming foundation experience through courses like astrophysical computations, climate-model projections, and practical geophysics.
- Climate Modeling - Used Python to model the efficacy of altering marine cloud brightness to counteract the effects of global warming.
- Astrophysical Modeling - Used Python to model solar orbits, rocket flight paths, and astrophysical fluid dynamics.
- Gravitational Analysis - Analyzed raw gravity data by performing convolutions, applying Fourier Transforms, and completing power spectral densities.

EMPLOYMENT HISTORY

Information Technology Coordinator & Program Instructor at Ability Now Bay Area, Oakland, CA
2020 — Present

- Led the reopening of online instruction and the eventual reopening of in-person client interaction by mentoring, training, and resolving problems of transition to new technologies due to the COVID-19 organization shut-down.

Staff Engineer at Berlogar Stevens & Associates, Pleasanton, CA
2019 — 2020

- Utilized data pipelines to engineer site-specific reports by handling various forms of data such as soil plasticity, soil compaction, and aggregate base specific gravity/water absorption.

Geotechnical Engineering Technician at Cornerstone Earth Group Inc., Sunnyvale, CA
2018 — 2019

- Published daily data-intensive reports of various geotechnical earthwork projects by utilizing specialized instruments to collect and analyze against engineering compliance.