SCOT ITAKURA

DATA SCIENTIST | OAKLAND, UNITED STATES | 909.684.1552

DETAILS

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ABOUT ME

I am a Geophysical Data Scientist and a Web Developer who is integrating a deep, technical background of geophysical engineering/scientific data analytics with a passion and skill for web developing. Recently earned a Berkeley Full-Stack Coding Bootcamp certificate. Seeking to become the next data scientist for a valued company.

LINKS

LinkedIn

Portfolio

GitHub

SKILLS

- MATLAB
- Python / SciPy
- ArcGIS
- Microsoft Excel
- SQL
- MongoDB
- JQuery
- JavaScript
- Problem Solving
- Decision Making
- Time Managing
- Leadership
- Communication
- Adaptability

EMPLOYMENT HISTORY

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

- Lead 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

- Engineered site-specific recommendations for subsurface construction by conducting onsite visits, raw data collecting/processing, laboratory testing and analyzing data.

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

- Conducted geotechnical data collection of earthwork, utility backfill, drainage improvements, excavations, and foundation construction.

EDUCATION

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

- Mastered coursework consisted of React, HTML, CSS, JavaScript, Node.js, jQuery, JSON, AJAX, Bootstrap, Materialize, Sass, Git, MySQL, MongoDB, MVC Paradigm, Responsive Design, Mobile-First Websites, Testing & Debugging, Object-Oriented Programming, Express, MERN Stack, etc.

Earth and Planetary Science, 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 (capstone).

RELEVANT COURSEWORK

Practical Geophysics

- Applied theoretical and practical aspects of digital signal analysis to perform data sampling, spectral estimation, digital filtering, statistical estimations, correlations, and principal-component analysis on real, raw data of earthquakes, gravity, fault roughness, global seismicity, and induced seismicity.
- Projects included:
  - Analyzed raw gravity data by performing convolutions and deconvolutions, understanding Fourier transforms, and completing power spectral densities.
  - Predict a seismic period of resonance of bridges to create a spectrogram by taking successive power spectral density estimates over time by using raw seismic data.

Scientific Computing

- Utilized Python and SciPy to solve astrophysics/Earth computations e.g. modeling solar orbits, rocket flight paths, and astrophysical fluid dynamics.

Modeling Earth's Climate

- Modeled the efficacy of altering of marine cloud brightness and reflection as a real method to counteract the effects of global warming in a solo project by using Python and researching climate geoengineering methods.