




DAVID GRAHAM

Full Stack Developer


Web developer with 3 years of experience using back end and front-end technology, 6 months experience managing cost-effective cloud solutions, and a background in environmental science.

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EXPERIENCE

Full Stack Developer and Environmental Policy Writer May 2020 – Present

United States Environmental Protection Agency (EPA)

- Automated generator outreach through data analysis to group hazardous waste sites by company and notify them of orphaned sites to exceed annual registration targets by 350%.
- Published an open-source hazardous waste management web application, API client libraries (TypeScript and Python) and expanded web service documentation.
- Promulgated national policies that established the legal framework for system users to meet their regulatory requirements; co-wrote the e-Manifest Third Rule which established requirements for reports to be submitted digitally.

Geophysics Teaching Assistant

Jan 2018 – May 2020

University of Texas at Dallas (UTD)

- Ensured that students completed courses with a working knowledge of the subject through lecturing, office hours, classroom preparation, assisting field trips, grading. Classes include:
 - Exploratory Data Analysis
 - Applied Geophysics
 - 3D Reservoir Modeling
 - History of Earth and Life

Environmental Scientist

Feb 2016 – May 2018

Alliance Technical Group (Formerly Alliance Source Testing LLC)

- Planned and executed industrial atmospheric emission testing using federal and state defined wet chemistry method to determine client pollution rates and self-reported accuracy.

Climbing Wall Manager

Dec 2011 – May 2015

Southern Methodist University (SMU)

- Streamlined daily safety inspections to allow staff to understand equipment status at a glance.
- Supervised the implementation of an intercollegiate climbing competition with over 300 competitors and dozens of cooperate sponsors.
- Undertook a yearlong training program to become an Outdoor Trip Guide. Planned and guided various commercial outdoor excursions across the U.S. southwest.

EDUCATION

Master of Science in Geophysics

University of Texas at Dallas (UTD)

Thesis: Interpretation-Based Full-Waveform

Inversion

2017-2020

Bachelor of Science

Southern Methodist University (SMU)

Minor in mathematics

2011-2015

SKILLS

Hard

- Python
- JavaScript/TypeScript
- Git
- Bash/Shell Scripting
- PostgreSQL
- Docker
- Linux
- GitHub Actions
- Kubernetes
- Go
- Terraform
- Web Design
- HTML/CSS
- Django
- React
- Containerization
- Cloud Computing
- Technical/Policy Writing

Soft

- Public Speaking
- Project Management
- Customer Service
- Problem Solving

CERTIFICATIONS AND COURSES

- Google Cloud Associate Cloud Engineer (ACE)
- Microsoft GitHub Actions Workshop
- American Red Cross CPR/AED
- McCoy's 5-day RCRA Hazardous Waste Training

AWARDS

EPA Outstanding Performance Management

2023

EPA National Awards

Serving the Public with Integrity and a Strong Work Ethic

2021/2022

EPA's Office of Resource Conservation and Recovery (ORCR)

People As our Strength

2020

EPA's Office of Resource Conservation and Recovery (ORCR)

Eagle Scout

2011

Boy Scouts of America (BSA)

PUBLICATIONS

Graham, D., D. Lumley, W. Zhou, J. Shragge, J. Bourget, 2019, Interpretation-based full waveform Inversion of a western Australian data set, 88th Annual International Meeting, SEG, Expanded Abstracts, 1863-1867

Sica, C., Graham, D. [and 11 others], 2017, Geophysical investigation of Tyouni Pueblo in Bandelier National Monument, New Mexico, USA, presented at the 98th annual meeting, AGU.