

DAVID GRAHAM

Full Stack Developer

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



dpgraham4401@gmail.com



(214) 263-4401



Washington, DC



linkedin.com/in/dpgraham4401



github.com/dpgraham4401

EXPERIENCE

Full Stack Developer and e-Manifest Policy Author May 2020 – Present

United States Environmental Protection Agency (EPA)

- Designed an open-source web application to illustrate how hazardous waste handlers can use modern web development practices to electronically track waste.
- Published client libraries (TypeScript and Python) and expanded web services documentation to assist stakeholders struggling to parse multipart/mixed API responses.
- Liaised between EPA and trade associations to communicate changes in policy, technical requirement, and listen to concerns and issues.
- Promulgated national policies that established the legal framework for users to submit signatures through e-Manifest web services; co-authored 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 following 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.

EDUCATION

Master of Science in Geophysics

University of Texas at Dallas (UTD)

Thesis: Interpretation-Based Full-Waveform

Inversion

2017-2020

Bachelor of Science in Geophysics

Southern Methodist University (SMU)

Minor in mathematics

2011-2015

SKILLS

- Python
- JavaScript/TypeScript
- Git
- PostgreSQL
- Docker
- Linux
- GitHub Actions
- Kubernetes
- Go
- Terraform
- Web Design
- HTML/CSS
- Django
- React
- Containerization
- Cloud Computing
- Technical/Policy Writing
- Public Speaking
- Customer Service
- Problem Solving

CERTIFICATION AND TRAINING

- CPR/AED and First Aid – American Trauma Event Management
- GitHub Actions Workshop – Microsoft
- RCRA Hazardous Waste Training – McCoy and Associates

AWARDS

EPA Outstanding Performance Management

2023

EPA National Awards – For automating outreach to exceed user registration targets by 350%.

Serving the Public with Integrity and a Strong Work Ethic

2021/2022

EPA's Office of Resource Conservation and Recovery (ORCR) – For going above and beyond to host public meetings to gather stakeholder input.

People As our Strength

2020

EPA's Office of Resource Conservation and Recovery (ORCR) – For picking up new skills quickly in adverse conditions.

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.