

# Michelle Griffith /// Data Scientist, Junior Software Engineer

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I am currently a junior software engineer with a background in Data Science and Engineering Physics. I am proficient in python, data analytics, and machine learning models. My experience in renewables, cleantech, and space tech has honed my drive to work with socially and environmentally minded companies to create systems and harness the power of humane tech & data to uncover insights that can lead to actionable steps forward to a smarter, sustainable and more equitable future.

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## SKILLS

**Technical:** Python (pandas, scikit-learn, Beautiful Soup, Jupyter, spacy, nltk, matplotlib, seaborn, Plotly), SQL, AWS Certified Cloud Practitioner, Microsoft Office, Visual Studio Code, Statistical Modeling & Analysis, Salesforce CRM

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## PROFESSIONAL EXPERIENCE

**Maxar, 2021-Present** /// *Junior AWS Cloud Governance Engineer*

- Manage technical support operations for Maxar Cloud Governance team, including working or routing AWS-related service tickets company-wide, while standardizing, documenting, and streamlining the issue resolution process
- Monitor existing cloud resources for compliance issues with Prisma, querying resources using RQL, performing IaC scans of existing policies with REST API, and deploying fixes to existing pipelines based on analysis of query results.

**Thinkful, 2020-2021** /// *Data Science Training*

### Selected Projects:

**SPOTIFY CLUSTERING:** Clustering and Classifying Songs from Spotify

- Performed and Tuned Clustering Algorithm to help identify similarities between Spotify tracks in order to create a primitive model for music recommendation to users.
- Explored, evaluated, & visualized differences between musical characteristics between genres beforehand to determine possible clusters, and afterwards to characterize the contents of each cluster.

**STUDYING SCOTUS:** Using Supervised Learning Models to Predict a Supreme Court Justice's Vote

- Deployed and optimized the initial version of a model that can predict how judges will vote as a tool to be used for those appointing judges to predict how they will vote based on the appointer's interests.
- Performed extensive initial data analysis to clearly understand differences between judges and issues areas in order to determine whether the model could actually be a useful tool.

**PULSE OF THE NATION:** How Income & Age Affect Political Opinions

- Examined whether age & income affects how survey participants answered political survey questions in order to inform campaign organizers how to interact with different demographics based on the issue at hand.
- Tested null hypothesis with statistical significance tests (t-tests and kruskal-wallis for non-parametric distributions) to determine that within the surveyed population that there is no difference between age and income.

**Independent Business Owner & Contractor, 2015-19** /// *Athlete, Outdoor Guide, Wellness Professional*

- Worked as a private yoga teacher, rock climbing guide & instructor, & semi-professional athlete, organizing manager & rigger for outdoor adventure documentaries and large events
- Marketed and lead multi-day off-grid yoga retreats for groups, and managed large-scale outdoor festivals/events

**National Renewable Energy Laboratory, Golden, CO, 2013** /// *Photovoltaics Researcher*

- Conducted research to optimize Cadmium Telluride (CdTe) thin film solar cells
- Operated sputtering systems, and characterized the results on final device performance
- Presented insight from research into optimal parameters for the Cadmium Sulfide layer of a CdTe solar cell

**National Renewable Energy Laboratory, Golden, CO, 2011-12** /// *Business Intern*

- Intern for the Industry Growth Forum, an annual business pitch competition hosted by NREL for cleantech startup companies to raise funding and access resources from NREL
  - Communicated with and counseled cleantech startup companies and entrepreneurs in different stages during their application process to present their business pitch at the Industry Growth Forum. Managed customer data with Salesforce CRM software
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**EDUCATION:** Colorado School of Mines, Golden, CO / Bachelor of Science, Engineering Physics, 2014, *Cum Laude*