

# SAMUEL BLAKE

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## Languages and Technologies

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**Proficient:** Python, C#, AWS, Docker, Linux, Git, R, Flask, GeoServer, STAC, REST APIs, GDAL/OGR, ESRI ArcGIS, SQL, OpenAPI, Terraform, Jenkins

**Knowledgeable:** C++, Kubernetes, Grafana, HTML5, CSS3, Flyway, GCP (Google Cloud Platform)

## Experience

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### Maxar Technologies

Sept 2022 – Present

*Software Engineer*

*Remote, CO*

- Leverages and maintains an event-driven, microservice system for efficient processing of imagery to a customer-accessible STAC API.
- Proficient in multiple programming languages including Python, Groovy, and Terraform, with a strong track record of designing and implementing complex software systems.
- Lead developer for the integration of third-party synthetic aperture radar (SAR) imagery into Maxar's catalog, enhancing multisource geospatial intelligence capabilities for both government and commercial clients.
- Adept at translating user requirements into practical solutions, conducting comprehensive testing, and debugging to deliver reliable and scalable software applications.

### Maxar Technologies

May 2020 – Sept 2022

*Geospatial Data Analyst*

*Remote, CO*

- Developed and enhanced functionality of Spatial on Demand, a geospatial intelligence streaming platform for energy customers, by focusing on a requirements-driven design; ultimately securing 50+ contracts valued at \$3 million total.
- Led the migration of energy customers to new web mapping services (WMS/WMTS), including transforming geospatial data into cloud-optimized GeoTIFF (COG) files using GDAL, configuring layer access, and integrating services with third-party mapping clients.
- Implemented and optimized web services for performance and interoperability using a diverse set of technologies, including GeoServer, Amazon Web Services, ESRI Image Services, and a MapProxy tile caching solution.
- Analyzed geospatial satellite data for quality assurance, radiometric scaling, and horizontal accuracy.

### City of Lakewood

May 2019 – May 2020

*GIS Technician Intern*

*Lakewood, CO*

- Ensured accuracy and reliability of city-owned assets through regular updates and maintenance of GIS databases, with occasional fields surveys using GPS technology.
- Developed, tested, and deployed geoprocessing tools to automate data cleaning tasks for the Public Works Street Maintenance Division.

## Education

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### University of Colorado, Denver

August 2018 – August 2021

*Master of Arts in Applied Geography and Geospatial Science*

*Denver, CO*

Cumulative GPA: 4/4

### University of Colorado, Boulder

August 2014 – May 2018

*Bachelor of Arts in Environmental Studies. Geological Sciences Minor. Cum Laude Honors.*

*Boulder, CO*

Cumulative GPA: 3.5/4

## Certifications

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### ESRI Certifications

Getting Started with Data Management  
ArcGIS Pro Basics  
Creating Web Applications Using Templates and AppBuilder  
Creating and Sharing GIS Content Using ArcGIS Online

### Other Certifications

CU Denver Geographic Information Science (GISci) Certificate  
AWS Cloud Practitioner