

MATT GRAFF

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[LinkedIn](#) | [Website](#) | [GitHub](#)

Passionate about leveraging geospatial, software and design to solve real-world challenges, I specialize in Python (ArcPy, Pandas), Java, SQL (PostGIS), and ESRI's ArcGIS suite. I enjoy creating intuitive, data-driven solutions that blend mapping, analytics, and UI/UX design.

CORE SKILLS

- **Programming:** Python, SQL, JavaScript, Java
- **Geospatial:** ArcGIS Pro, QGIS, Sensor Data
- **Infrastructure:** Amazon S3, GeoServer
- **Data Science:** R, Pandas, Python ML
- **Software Development:** Git, Linux, Bash, Agile Methodologies, Unit Testing
- **Design & Prototyping:** Figma, Adobe Suite
- **Web Development:** HTML, CSS, React

PROFESSIONAL EXPERIENCE

AVENUE ROAD

Oct 2023 – Present

Weather Data Analyst

At Avenue Road, my role is to aggregate and analyze historical and forecast weather data to produce weekly reports, including detailed weather and snow forecasts.

- Aggregated and analyzed historical and forecast weather data using Python and SQLite.
- Developed Python-based data pipelines to process historical and forecast weather data.
- Maintained a structured database of thousands of weather records, ensuring consistency and reliability.

GEOBC

May 2024 – Sept 2024

GIS Technician / Developer Co-Op

- Independently researched and implemented a scalable archival system for over 20TB of geospatial data using Amazon S3 and GeoServer.
- Developed a Python tool to automate Next Generation 9-1-1 (NG911) road and address point comparisons.

GEOBC

May 2023 – Sept 2023

GIS Analyst

- Developed custom GIS tools using ArcPy and built user-friendly interfaces in ArcGIS Pro.
- Contributed to the Digital Road Atlas (DRA), enhancing emergency services routing and transportation planning.
- Conducted spatial data analysis and maintained critical GIS datasets.

EDUCATION

Geography and Computer Science (Geomatics), University of Victoria, Victoria, BC, Expected 2026

SOFT SKILLS

Problem-Solving: Ability to break down complex problems and develop efficient solutions.

Communication: Experience collaborating with teams and presenting technical insights.

Adaptability: Quick to learn new technologies and adapt to evolving project needs.

INTERESTS

Running, 3d modelling, cooking.