Samir Sellars

613-698-2370 | Samir.Sellars@gmail.com | www.linkedin.com/in/samir-sellars

TECHNICAL SKILLS

Software:ArcGIS Pro, QGIS, Microsoft SQL Server, PostgreSQL, ArcGIS Enterprise, Bitbucket, Google Earth Engine
Languages: Python, SQL, Javascript/HTML/CSS, Arcade
Libraries / Modules: Arcpy, Python API for ArcGIS, Pandas, Geopandas, ArcGIS Javascript API, ArcGIS REST API, Calcite
Certificates / Other: ESRI ArcGIS Desktop Exam, AGILE Pain Relief Scrum Master, Level 3 Security Clearance, Maintains a Small Open Source Python library for Auto Filling PowerPoint Templates

WORK EXPERIENCE

GIS Developer — April 2020 – Present
Esri Canada — *Ottawa, ON*

- Developed complex ETL pipeline processes and scripts using Python and JavaScript to manipulate data between Enterprise environments in a SCRUM environment.
- Enriched and analyzed data to permit end users to draw strong conclusions about their data using Python and custom web apps.
- Responsible to cooperate with other developers in an AGILE environment to create robust Python scripts and custom web applications to provide services to Department of National defense clients
- Utilized SQL and Microsoft SQL server to manage Enterprise Geodatabases, create views and triggers.
- Used Python to create value from data by autogenerating visuals, PDF reports, PowerPoints and maps.
- 1.5 years of directly working with Department of National Defense stakeholders from various DND branches.
- Worked directly with clients and stakeholders to create ArcGIS Dashboards, Survery123 forms and Web Applications using the Python for ArcGIS API, Arcpy and ArcGIS Pro.
- Created ArcGIS Python toolboxes to process the Yukon Governments terabytes of satellite imagery.

Remote Sensing Earth Engine Developer — Dec 2020 – March 2020
Carleton University — *Ottawa, ON*

- Developed remote sensing web apps using Google Earth Engine Javascript API.
- Created consumable and user friendly web apps in Google Earth Engine that permitted users to perform remote sensing operations using no code.

GIS Technical Team Member — Jun 2020 – March 2020
Geomatics and Cartographic Research Centre — *Ottawa, ON*

- Visualized Arctic Ocean climate research data using Python and netCDF data.
- Developed Python scripts and workflows to help researchers query, import, process and analyze spatial data using MatplotLib, Geopandas, Pandas and QGIS.
- Created technical documentation for researchers who are interested in setting up their own Python data processors on cloud servers.

Physical Data Officer — Sep 2020 – Dec 2020
Canadian Hydrographic Service — *Ottawa, ON*

- Developed Python scripts to automate the geoprocessing of multi-beam sonar survey data.
- Improved data processing workflows by increasing the speed of geoprocessing python scripts in an ESRI environment and decreasing time to complete workflows by 4 hours.
- Automated metadata updating and importing process for spatial data using ArcGIS Pro Metadata Objects.
- Proficently used ArcGIS Pro and ArcGIS Desktop to complete data processing tasks.
- Created maps and data visualizations to present to stakeholders using ArcGIS Desktop.

Geomatics Officer — May 2019 – Aug 2019
Department of Fisheries and Oceans — *Ottawa, ON*

- Developed technical standards for nautical travel for the Canadian Hydrographic Services.
- Performed quality control and quality analysis on large provincial and federal databases.
- Presented conclusions of my research and submitted a technical report to the International Hydrography Organization.

EDUCATION

Carleton University — Sep 2016 – Dec 2020
BSc in Environmental Science, Minor in GIS, Minor in Biology — *Ottawa, ON*