Samuel Arnold

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SUMMARY

Detail-oriented data enthusiast and GIS professional with 2 years of experience using a variety of GIS software to visualize spatial data. Proficient in data management and cartography with a passion for helping others and representing environmental issues through spatial science.

TECHNICAL SKILLS

ESRI Suite: ArcGIS Pro, Online, Dashboards, StoryMaps, Enterprise, Portal **Geospatial Tools:** Quantum GIS (QGIS), OpenStreetMap, GRASS GIS

Languages: Python, LaTeX, MySQL

Libraries: Pandas, NumPy, Matplotlib, OpenCV

Microsoft Suite: Excel, Access, Word, Sharepoint, PowerPoint, Teams, Outlook **Additional Software:** Adobe Illustrator, Adobe Photoshop, Adobe Acrobat

PROFESSIONAL EXPERIENCE

GIS Analyst I Oct 2022 - Present

Washington College Chestertown, MD

- Compose monthly risk-analysis maps of vehicle thefts and impaired driving using ArcGIS Pro and Adobe Illustrator
 Automate data queries using Arcade and SQL to increase efficiency of data selection and exportation
- Coordinate with Maryland Department of Transportation on upcoming projects, deadlines, and grant funding
- Deploy StoryMaps, Dashboards, and Web Applications into our reports for additional data visualization
- Supervised 15+ student interns by answering questions, providing detailed edits, and tracking current projects

Next-Gen 911 GIS Analyst

Feb 2022 - Oct 2022

Inteliquent

Boulder, CO

- Identified and corrected data from collected shapefiles to meet professional quality standards using QGIS and Excel
- Doubled data correction efficiency by creating and integrating python scripts into the QGIS workflow
- Worked with local government and law enforcement to collect and update our geodatabase for 911 call routing

GIS Lab Assistant

Aug 2021 - Dec 2021

Dickinson College

Carlisle, PA

- Developed student training modules for concepts such as "Data Management" and "Cartographic Standards"
- Maintained lab computers by managing ESRI user permissions in ArcGIS Enterprise and updating firmware
- Researched and documented new spatial software that could be taught in the Advanced GIS course curriculum

Research Assistant May 2021 - Aug 2021

National Science Foundation - Research Experience for Undergraduates (REU)

Cambridge, MD

- Taught myself how to utilize machine learning and Python to create an automated image segmentation program
- Constructed a working machine learning model therefore eliminating the need for manually segmenting images
- Presented a final research project to stakeholders regarding the outcome of the image segmentation program

EDUCATION

Google Data Analytics Professional Certification

March 2023 - Present

Dickinson College

Aug 2017 - Dec 2021

Bachelor of Science in Earth Science Bachelor of Science in Archaeology

Minor in Anthropology

Carlisle, PA

PROJECTS

SoundCloud Web Scraper | Python, Pandas, MySQL, Beautiful Soup

Feb 2023

- Designed a script using Python, Selenium, and Beautiful Soup to collect my listening history on Soundcloud
- Extracted, manipulated, and managed HTML text from SoundCloud in a data frame using Pandas
- Cataloged the results of the web scraper in a relational database using MySQL

Automated Image Masker | Python, Matplotlib, Numpy, OpenCV

May 2021 - Aug 2021

- Implemented OpenCV to create a machine learning model to identify and mask turtle shells from an image
- Collaborated with members of the Smithsonian Data Science Team using Jupyter Notebook to share notes
- Documented workflow with visual aids created using Numpy and Matplotlib