



Clayton Groth

PROFILE

GIS developer, Professional M.S. student at University of Wisconsin Madison.

CONTACT

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SKILLS

ArcMap (ESRI Products)



Obejct Oriented Programming (Python, Javascript, Java, R)



Data Analysis and Visualization (Python libraries, D3)



Web Map Development (Leaflet, MapBox, Bokeh)



Databases and Data Managment (SQL, SQLite, JSON, Spatial Databases)



Design Skills (Adobe PS, Adobe AI, HTML, CSS)



Strengths

- Teamwork
- Analytical Problem Solving
- Excellent with Deadlines
- Ability to work independently
- Efficiency Oriented

WORK EXPERIENCE

LIDAR DATA SUBJECT MATTER EXPERT / GIS TECH @ CONTINENTAL MAPPING

May 2017 - Present

Presently, I lead a small team in processing LiDAR data for various clients and applications in transportation and infrastructure. In this position I have added to my skills in ArcMap, Python and spatial databases. I have gained skills in point cloud processing software and organizing administrative data in Excel. I have also completed several independent and self-directed projects in this position. My ideas and problem solving abilities have made me a valuable asset to the team.

WIND DATA TECH @ BASELINE RENEWABLES

Sept 2016 - May 2017

In this position I participated in field data collection, creating deliverable maps for clients, and mapping prospective wind turbine locations. I led a team in field deployments and did independent work organizing client's data and creating maps.

RESEARCH ASSISTANT @ UW MADISON SAGE

Sept 2014 - May 2016

With the Center for Sustainability and the Global Environment I worked on a research project mapping the correlations between ozone concentrations and various meteorological variables. I gained experience in creating scripts for mapping atmospheric data and collecting and organizing EPA data, primarily using NCAR command language run in Unix/Linux shell. I also gained valuable experience in creating technical reports for academic purposes. This gave me exposure to the world of academic research

EDUCATION

M.S. GIS WEB MAP PROGRAMMING @ UNIVERSITY OF WISCONSIN MADISON

Sept 2017 - Present

I am currently completing my master's degree with UW Madison. My studies in GIS have added substantially to my advancement at work and to my interest in the world of mapping.

Relevant Coursework:

Spatial Analysis, Interactive Web Cartography, Spatial Databases, Geocoding (Python, OGR/GDAL), Graphic Design Cartography, GIS and Cartography

B.S. ENVIRONMENTAL SCIENCE @ UNIVERSITY OF WISCONSIN MADISON

2011 - 2016

I completed a double major in Environmental Science (focused mostly on air quality) and Philosophy (focused on technical philosophy of science, mainly in probability theory).

Relevant Coursework (some graduate level, taken as undergrad):

Bioclimatology, Air Quality Modeling and Analysis, Atmospheric Dispersion, Renewable Energy Systems Engineering, Chemistry (I & II), Calculus, Mathematical Statistics, Statistical Probability