Schuyler Williams

skywilliams@gmail.com • (262) 374-1086
720 N Old World 3rd St. APT 606,
Milwaukee, WI 53203

Experience

GIS ANALYST II
CONTINENTAL MAPPING CONSULTANTS // SUN PRAIRIE, WI // 2018 - CURRENT
- Developed a custom database management system interface for a Postgres database
- Created new workflow in QGIS for production mapping
- Converted custom ArcMap Python scripts into QGIS compatible versions
- Built Python scripts to filter and incorporate OSM data into workflows to reduce analyst time
- Worked on multiple projects to increase efficiency and provide logistical support
- Started work on auto-detection for road networks

PROJECT MANAGER
EPIC // VERONA, WI // 2018 - 2018
- Personally responsible for the success of Hospital Information Management software build
- Oversaw team of analysts for a province-wide software implementation for Alberta Health Services
- Trained, guided, and supported team members with their tasks
- Led team meetings to track progress of goals and coordinate specific jobs
- Wrote reports and documentation to update team leads and executives
- <u>Reason for early departure:</u> Decided that my career path didn't match my professional and personal goals

GIS ANALYST
CONTINENTAL MAPPING CONSULTANTS // SUN PRAIRIE, WI // 2017 - 2018
- Developed multiple Python scripts which reduced workflow time by 75%
- Helped develop and revise geoprocessing workflow
- Developed tool to automatically handle 87% of a specific workflow task
- Invited to join Quality Control team
- Analyze aerial imagery and perform geographic analysis
- Obtained Secret Clearance

GIS DEVELOPER
UW - SEA GRANT // MADISON, WI // 2016-2017
- Collaborated with the Wisconsin State Cartographers Office
- Developed web mapping application
- Updated existing application as well as design new functionality
- Designed wireframes and implemented new user experiences
- Managed project framework and design

GIS Lab Manager
Department of Forest and Wildlife Ecology // Madison, WI // 2016-2017
- Communicated and resolved issues between team members
- Oversight and training of all new hires
- Developed procedure for the quality control of completed work
- Delegated and coordinated responsibilities
- Ran monthly meetings
- Maintained lab website and developed prototype mapping application for state project

GIS Ecological Technician
Department of Forest and Wildlife Ecology // Madison, WI // 2015-2016
- Digitized and attributed land cover maps
- Responsible for updating team progress map
- Created point and line features on georeferenced map images
- Worked as a team to achieve efficiency and deadline goals

Student Supervisor
UW - Madison Union // Madison, WI // 2014-2015
- Hired as custodial, promoted to supervisor within 3 weeks
- Responsible for shift reports and custodial workers
- Resolved issues that arose with custodial workers
- Light cleanup of offices and building where needed

Projects

Satellite Imagery Agricultural Analysis
Performed multiple imagery analysis on satellite imagery of crop fields using supervised and unsupervised classifications which can then be used as input into an algorithm to classify many different images. My initial intent was to predict future crop yields from this data, by gauging the health of this and previous seasons' crops.

Twitter Crisis Map
Developed a web mapping application that pulls geotagged tweets from the Twitter API based on specific key words. The results of those tweets are then stored in a JSON file, which is referenced by an online map. With this application, I was able to see geotagged tweets pop up across the world during Hurricane Sandy, while searching for the key words, "Hurricane" and "Sandy".

Crowd-Sourced Disease Tracker
Developed a crowd-sourced disease tracker, using open-source GIS libraries and an SQL database. The initial project was for a class, however, I believe that with the right integration the application could be very useful for professionals in the field. A user is able to report a case of a disease from anywhere in the world, which is then viewed real-time in the application.

INTERACTIVE RECREATIONAL DATABASE

Currently developing, in my spare time, an interactive recreational database; i.e., an online portal that allows access to all kinds of recreational activities and recreational areas across the country. I have currently started testing the interface in Wisconsin, and am switching the database from a SQL backend to a NoSQL framework for efficiency and speed.

LOCAL EVENT APPLICATION

Currently developing, in my spare time, a local event application. The web app uses crowd-sourced GIS techniques integrated with a NoSQL database for real-time updates for events created by users.

Education

BACHELORS OF SCIENCE - GIS/CARTOGRAPHY AND GEOGRAPHY
UNIVERSITY OF WISCONSIN - MADISON // MADISON, WI // 2017

CERTIFICATION - EMS - EMERGENCY MEDICAL TECHNICIAN
MADISON AREA TECHNICAL COLLEGE - MADISON // MADISON, WI // 2018

Skills & Experiences

TECHNICAL

SQL, NoSQL, PHP, Python, HTML/HTML5, CSS/CSS3, Javascript, Java, AJAX, Arcpy, GDAL/OGR, Leaflet, Mapbox, Esri ArcGIS, QGIS, Envi, PostgreSQL, Geoserver, PyQGIS, Remote Sensing, MS Office

PROFESSIONAL

CPR, EMT, Project Management, User Experience Design, User Interface Design, Conflict Management, Database Integration, Data Analysis, Geographic Analysis, Training, Quality Control, Documentation, Decisive, Adaptable, Communicator