

Ulrich Strötz

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PROFILE

GIS developer with a special interest building fast and efficient applications using OpenSource software and data.

EXPERIENCE

2014

(9 months)

GIS DEVELOPER, Mapicture Berlin, Germany

- Setting up a OSM tile server and GeoServers including server maintenance: Mapnik, mod_tile, rendered, GeoServer(gsconfig), PostgreSQL (PostGIS),
- Development of various web map visualizations including input user interfaces: JavaScript (Leaflet/jQuery), GeoServer, PostgreSQL (PostGIS)
- Process automatization and development of a print composer that enables high resolution web map tile printing out of the browser: Python (GDAL/GeoScript/Mapnik), PostgreSQL (PostGIS), GeoServer, TileMill

2013 – 2014

(11 months)

GIS INTERN, Ecotrust Portland, OR

Development of a timber harvest cost model and a road model, for Ecotrust's Forestry Scenerio Planner. The cost model estimates timber harvest costs for a given forest stand. The road model models potential logging roads based on existing OpenStreetMap data and factors like slope, stand density, etc.

- Python, GDAL, Grass Script, OSM API, OSRM API, QGIS

2012

(3 months)

GIS INTERN, DHI Wasy Berlin, Germany

Extracting and modifying OpenStreetMap data for use in DHI's GeoFES (decision support for disaster management). General data processing, analyzing, and visualization.

- OSM, Osmosis, QGIS, FME, ArcMap, Python, ArcPy

2011

(5 months)

STUDENT GIS TECHNICIAN, University Eberswalde

Eberswalde, Germany

Digitizing of power lines in Germany. Collecting various GIS data regarding biomass for renewable energy production and visualization of the data in a web map.

- OSM, ArcMap, ArcGIS Online

2010 – 2011 (6 months)	GIS INTERN, DNR Alaska Fairbanks, AK Various GPS data collection and map production. Development of a <u>tool</u> for the ArcGIS Toolbox that estimates biomass harvest costs. ► ArcMap, ModelBuilder, Python, Trimble & Garmin GPS
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EDUCATION

2012 – 2014 (expected)	Geographical Information Science & Systems (M.Sc.), University of Salzburg Salzburg, Austria (Online Program)
2013	Open Web Map Services and Web Mapping Summer School, University of Girona Girona, Spain
2008 – 2012	Forest Ecosystem Management (B.Sc.), University of Eberswalde Eberswalde, Germany

SKILLS

- **GIS:** QGIS, GDAL/OGR, ArcMap, Grass GIS, FME Desktop, TileMill, Mapnik, GeoServer (gsconfig)
- **Programming Languages:** Python (GDAL/ArcPy/GeoScript), JavaScript (Leaflet/jQuery), Java, HTML5, CSS, XML
- **Version Control:** git (GitHub), GeoGig
- **Statistics:** R, SPSS
- **Databases:** SpatiaLite, PostgreSQL (PostGIS)
- **Office:** Microsoft Office (inc. Access), OpenOffice, iWork
- **Operating Systems:** Ubuntu (Desktop + Server), Mac OS X, Microsoft

ADDITIONAL INFORMATION

- **OpenStreetMap** mapper [user statistics](#)
 - **GitHub** pusher: [Report Card](#)
 - **GIS Stack Exchange** student and teacher: [account](#)
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References available upon request