

## Education

University of Washington, WA

M.S. in Geospatial Technology, August, 2016

Focus on current application of geospatial software and data in urban and environmental settings; training in Web GIS, automation for data manipulation and mobile geospatial application development.

Developed geospatial applications using Leaflet, Esri API for Javascript and Mapbox; explored FOSS platforms including Boundless OpenGeo Suite and PostGIS. Capstone project developed for Integral GIS & PJM Interconnection aimed to determine the fastest way to adjust a raster analysis in real-time based on electrical voltages from fixed locations. A model was created to consume live voltage data, process the information, and visualize it in a geographic web application that was used to identify and prevent potential blackouts.

University of Redlands, CA

B.S. in Environmental Science, Spatial Studies Minor, April, 2015

Emphasis on natural resources, earth's processes and human influences on the environment; includes physical geography and the general circulation of earth's resources through the biosphere, lithosphere and hydrosphere.

Outreach with focus on environmental injustice; studied businesses that incorporate sustainability into their brand, including grant proposals and statistical mapping to support sustainable solutions. Dissected and developed Environmental Impact Assessments necessary to advance land use projects; incorporated GIS into making more informed decisions.

## Spatial Studies Experience

Integral GIS, GIS Specialist, Seattle, WA, August 2016 - Present

- ❖ PJM Interconnection
  - Geodatabase development and information architect.
  - Data automation & customization using Python.
  - Application development with ArcGIS Runtime SDK for .NET.
- ❖ Jones Lang LaSalle
  - ArcGIS Map Service deployment.
  - Data quality assurance.
  - Map centered design.
- ❖ Pacific Northwest Regional Council of Carpenters
  - Data modeling for contract partners and field representatives.
  - System architecture design for new hardware & software implementation.
  - Data hosting and web services for GIS Web Mapping Application.
- ❖ Marine Exchange of Alaska
  - Mobile Application for vessel tracking.
  - Mobile Application development using React Native.
  - Technology used includes React; Redux; Babel; Webpack; Yarn.

OSIsoft User Conference, San Francisco, CA, March 2017

- Presentation on connecting a PI System to a GIS web mapping application using the PI Web API.
- Presented at the OSIsoft annual User Conference; conference provided substantial business networking.
- Co-presenter with Ed Kovler (PJM Interconnection); demonstrated effective teamwork and communication skills.

Integral GIS, Geodatabase Infrastructure and Design Intern, Seattle, WA, July 2015 - August, 2016

- Modeling and developing geodatabase's for clientele.
- Sparx Systems; Enterprise Architect.
- Experience with SQL Server, ArcGIS for Server & ArcGIS for Portal.

University of Redlands Center for Spatial Studies, Research Assistant, January – May 2015

- Integrate spatial thinking and technologies into research and service; includes raster analysis and CAD.
- Provide ArcGIS and data support; students discover new ways to portray data.
- Assist faculty with projects; provide technical support including creating story maps for University outreach efforts.

Esri Ocean GIS Forum, Redlands, CA, November, 2014

- Presentation on Kite Aerial Photography & research conducted on Tetiaroa in French Polynesia.
- Presented at Esri headquarters; forum provided substantial data networking.
- Co-presenter with Ian Eland and Lucas Wilgers; demonstrated effective teamwork and communication skills.

Ecotrust, Portland, OR, July – August, 2014

- Intern under Director of Spatial Analysis, Mike Mertens.
- Reproduced, corrected and updated county level descriptive statistics from an Economic Development Quarterly article for new analysis; conducted research to locate variables, compile data, and work with raster data.
- Used ArcGIS Platform to join data and other statistics on a county level to analyze local and regional food supplies.

City of Portland Urban Forestry Division, July – August, 2014

- Volunteer for the Tree Inventory Project, under Data Coordinator Jeremy Grotbo.
- Data enterer in ArcGIS; learned to work with large network geo-databases and produce domains in ArcMap.

Johnson Creek Watershed Council, Portland, OR, June – August, 2014

- GIS intern producing maps to support outreach efforts for Program Outreach Coordinator, Amy Lodholz.
- Served the community by keeping neighborhoods up to date on current operational projects.

## Additional Employment

Reed College Summer Tennis Camp, Portland, OR, June – August, 2011, 2012 & 2013

- Director and coach at a tennis camp hosted by Pro Darryl Kealy.
- Supervised and instructed children and teenagers age 5 to 17; developed excellent coaching/communication skills.

East Portland Medical Associates, Portland, OR, June – August, 2010 & 2011

- Office and Nurse Assistant; cultured on punctuality in a fast-paced work environment.
- Filed and organized patient's charts; trained in efficient organizational practices.

## GIS Related Skills

Esri

- ArcGIS Enterprise (Planning, installation and configuration of new system architecture).
- ArcGIS Online (Hosting web maps for GIS Web Applications; Creating story maps).
- Collector for ArcGIS (advanced proficiency in developing mobile applications).
- Esri in Excel (Producing ArcGIS Online maps from tabular Excel data).

OSIsoft

- Formal training; Partner Bootcamp (Learned technologies surrounding PI System).
- PI System (Implementation of PI Data Archive & PI Server).
- PI Web API (Simulate real time data flow and consume in GIS Web Application).

Development

- .NET (ArcGIS Runtime SDK Version 100.1; Microsoft Object Library).
- JavaScript (ES6; Firebase; React; Redux)
- Python (Arcpy; Pypyodbc).
- SQL (Database development; Advanced Transact SQL statements; Stored Procedure testing).

Other

- Trimble Hardware, GPS to GIS (Imported data from Trimble units through Pathfinder and into ArcMap).