



Matthew Kenny

Matthew Kenny
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Phone: (360) 319-3407

Experience

Web GIS Programmer, RSP Architects Ltd. Contract. -- January 2009 - Present
Developed Web GIS applications using the ArcGIS Server 9.3 JavaScript Extension for the Google Maps API as well as the OpenLayers API. Utilizing ArcGIS Server 9.3, MySQL, and remote data sources as spatial backends.

GIS Intern, Computational Sciences Inc. -- August 2008 - December 2008
Small-scale hydrologic mapping using Arc Hydro. Provided analysis and cartographic output on-demand. Responsible for data acquisition and conversion (LAS Lidar, Raster, Vector, etc.) as well as data creation.

GIS Intern, Northwest Indian Fisheries Commission -- June 2007 - June 2008
Responsibilities included gathering data from multiple organizations in various formats (tabular / shapefiles / static map) and incorporating it into a proprietary Arc Hydro data model. Established a field data collection system for gathering streamflow data. Created a python script / toolbox for parsing attribute information in a user-specified geodatabase based on field type. 40 hours a week Summer 2007. On call throughout 2008.

USGS Field Training

Received USGS training in streamflow monitoring using Pygmy and Type AA current monitors. Instruction also covered USGS field data recording methodology.

ESRI Student Assistantship

Awarded Student Assistantship for the 2009 ESRI International User Conference.

Education

Western Washington University: Huxley College, Bellingham WA

BA Environmental Studies (Environmental Planning Major w/ GIS Minor), Spring 2008.

Arizona State University: School of Geographical Sciences, Tempe AZ

MAS-GIS Graduate Program, Summer 2009.

Skills

Analysis

Working within the Arc Hydro framework to process watershed boundaries and streamflow data to determine salmon habitat suitability. Using ArcGIS toolsets such as Spatial Analyst to perform statistical analyses on datasets. Utilizing ERDAS Imagine software to classify remotely sensed data.



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Cartography

Advanced cartographic techniques including: Swiss-Hillshading, ArcMap 9.2 Cartographic Representations, page layout, and text manipulation.

Open Source GIS

Proficient in the use of GRASS GIS along with its ancillary programs and libraries for the import, analysis, and export of spatial data. Skilled in combining Open Source programs with commercial GIS software to provide boutique solutions for clients.

Policy

Ability to participate in drafting of Environmental Impact Statements and Form-Based Codes through research, analysis, and writing.

Programming - Scripting / Web

Competent with JavaScript / PHP / HTML / CSS for development of GIS web applications using REST and AJAX styles. Also familiar with Python for the purposes of scripting ArcGIS geoprocessing tasks.

Survey

Competent in establishing a field survey workflow for data collection, storage, and analysis of GIS data through pencil / paper and ruggedized-handheld input. Experienced in creating a unique field collection template using DataPlus Professional software on a Husky FS/2 field computer. Experience with Trimble handheld GPS devices.

Software

ESRI's ArcGIS Software Suite / GRASS GIS / QGIS

OpenLayers API / Google Maps API / ESRI JavaScript API / Mapserver

MySQL / phpMyAdmin

EPA's ALOHA - Areal Locations of Hazardous Atmospheres

DataPlus Professional / Trimble TerraSync / GPS Pathfinder (Certified by Allen Instruments)

Adobe Photoshop / Microsoft Office Suite

Referrals

James Fee, GISP, WeoGeo.

E-mail: jfee@weogeo.com

Tyson Waldo, North Sound Area Biologist, Northwest Indian Fisheries Commission

E-mail: twaldo@nwifc.org

Abdul Ahmed, Principal, Computational Sciences, Inc.

E-mail: ahmed@ccsia.org



Portfolio

<http://www.mkgeomatics.com/>

Presentations

'Extending GIS with Open Source' - Presented to the Northwest Washington GIS Users Group on June 20th, 2008.

'Using OpenLayers with ArcGIS Server REST API' - Co-authored and developed with James Fee for the 2009 ESRI Developer Summit.

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