

# John W. P. Metta, GIT

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Records before July 2005 exist in the name John William Pennington

**Objective**      To challenge my skills in data management and web application programming

**Education**      *MS: Biological & Ecological Engineering*      Dept. of Biol. & Ecol. Engineering  
Oregon State University, Corvallis, OR      2007  
Thesis focus: GIS-based Systems Modeling

*MS: Resource Geography*      Dept. of Geosciences  
Oregon State University, Corvallis, OR      2007  
Thesis focus: Water Resources Geography

*Dual BS: Geology & Anthropology*      Dept. of Geology and Dept. of Sociology & Anthropology  
College of Charleston, Charleston, SC      2003

**Relevant Experience**      *Database Administrator/Programmer*      Joe Carrol, Army Corp of Engineers (ACOE)  
Mosier, Oregon      2009 – present  
Provide data management, database administration and programming in support of the ACOE mission of collecting and providing water quality data for the Columbia River Basin Project. Provide programming as needed to link ACOE data to spatial visualization tools using Google Earth and Google Chart/Visualization APIs.

*Water Quality Hydrologist*      Oregon Department of Environmental Quality  
Portland, Oregon      2007 – 2008  
Served as lead developer for stream modeling application used by state to determine Oregon water quality standards. Application is spatially distributed mathematical model tied to Excel and programmed in Python and Visual Basic. Provided development and programming of water quality tools and consulting support for statewide users of water quality software.

*Research Assistant*      Biosystems Modeling Group  
Oregon State University, Corvallis, OR      2005 – 2007  
Provided testing and development of spatially distributed GIS-based water quality modeling application for use in land-use planning and environmental restoration. Provided computer programming and environmental engineering support to the Biosystems Modeling Group in partial fulfillment of masters study.

*Research Assistant*      Watershed Processes Group  
Oregon State University, Corvallis, OR      2003 – 2004  
Provided research, logistics and field support to research geographers and geomorphologists in the Watershed Processes Group in partial fulfillment of masters study.

*GIS Technician/Programmer*      USDA FS Forest Science Laboratory  
Oregon State University, Corvallis, OR      2004 – 2004  
Served as lead developer on HydroDB GIS web application. A Large scale geographic/climatic database developed to provide Forest Service environmental data on the web.

***Programmer***

Oregon State University, Corvallis, OR

Department of Geosciences

2003 – 2004

Programmed an end-user graphical interface and 3-dimensional visualization library for a large-scale landscape evolution model.

***Undergraduate Research Assistant***

College of Charleston, Charleston, SC

Selected Appointments Listed Below

2000 – 2003

**Dept. of Geology & USDA–FS:** Programmed data management tools for Forest Service Hydrologists in cooperation with the HydroDB project. (*Sep. 2002 – Jun. 2003*)

**Dept. of Geology:** Programming an analysis of visualization tools for remote sensing data. (*Aug. 2002 – May 003*)

**Lowcountry Hall of Science & Math:** Program manager and lead developer for "Coastal Geology Online!" An online geospatial data clearinghouse for South Carolina. (*Jan. 2000 – Dec. 2002*)

**Dept. of Geology:** Programmed a method to correct for atmospheric distortion of AVIRIS remote sensing data for an area near Charleston, SC. (*Jan. 2000 – Jul. 2000*)

***Primary Instructor***

Community Education, Charleston, SC

Volunteer

Nov. 2000 – May 2001

Developed an introduction to computer programming series through community education. Taught 3 successive levels of Python programming from beginner to intermediate.

**Technical Skills**

▷ **Data and Web Development:** I have experience programming GIS-based applications and data analysis frameworks for end-users, but my primary focus is in using web applications to bridge the gap between complex data and the general public. My skills and experience include:

Ruby/Rails	Python	PHP	CSS/JS	Scala	Perl	Visual Basic
GIS	XML/KML	TeX/L <sup>A</sup> TeX	SQL	UNIX Shell	Java	C/C++

**Professional references available**