Kate Chapman

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Objective

To foster more inclusive open communities

Experience

Director/Founder, Humanitarian OpenStreetMap Team (HOT)   August 2010 –Current

Lead day to day operations of HOT in conjunction with the other members of HOT's board of directors. These responsibilities include obtaining grants, communicating with HOT's membership and executing projects. Responsible for public communication about HOT through website, Twitter, Facebook and other online means.

Designed and completed one-year pilot to measure the feasibility of utilizing OpenStreetMap as a mechanism to determine the impact of disasters in Indonesia. During that time facilitated creation and translation of OpenStreetMap software and training materials. Traveled to Haiti post earthquake to assist in training of organizations and individuals in contributing to OpenStreetMap and utilizing the information for their own projects.

Developer Community Lead, FortiusOne Inc., Arlington, VA   June 2009 –May 2011

Lead for supporting and evangelizing Geocommmons/GeoIQ APIs and open source projects in the developer community. Online this is accomplished through blogging, tweeting and IRC. In person through attending and organizing conferences, meet-ups and bar camps. Creates sample applications and examples utilizing the GeoIQ APIs. Participates as integration engineer in crisis response exercises such as RELIEF to integrate GeoIQ with other products and systems.

Software Development Manager, iMapData Inc., McLean, VA   Sept. 2008- June 2009

Responsible for maintaining sunsetting application by repairing bugs and enhancing functionality. Created new applications for new product by creating web services utilizing .Net Framework 2.0. Researched new mapping platforms and assisted in making the technical decision of which one to purchase. Working independently created prototypes utilizing SQL 2008 to determine what technology is necessary for the organization's next mapping engine. Responsible for staffing of software development department and mentoring of junior developers.

R&D Software Developer, iMapData Inc., McLean, VA   March 2007-Sept. 2008

Responsible for researching new technologies and integrating different products within iMapData. Designed implementation for Open Geospatial Consortium (OGC)'s Web Feature Service (WFS) protocol. Researched different geocoding technologies to assist determining if new geocoding solution was needed. Part of team that created the first integration prototype between iMapData and a COTS application. Acted as technical resource regarding ESRI products as well as OGC standards.

Lead Quality Assurance Analyst, iMapData Inc., McLean, VA   August 2006-March 2007

Continued to share responsibility for manually testing data and software used in the iMapData website. Served as technical resource in implementation of OGC protocols. Assisted in the recommendation of product's mapping technology change through trial and review of multiple web mapping programs. Continued performing load testing, web application security assessments and test script automation.

Quality Assurance Analyst, iMapData Inc., McLean, VA   October 2004-August 2006

Shared responsibility for manually testing data and software used in the iMapData website. Wrote internal data testing application to verify geographic locations and attributes. Solely responsible for application security testing, load testing and automated frontend testing. Participated in data gathering for hurricane response during and after Hurricane Katrina including data verification and preparation. Wrote an automated scraper to update hurricane track information. Created initial prototype demonstrating integration between iMapData and iXv technology using C#.

Technical Support/Research Analyst, iMapData Inc., McLean, VA   March 2004–October 2004

Respond professionally to technical inquiries from customers regarding the iMapData Web product via telephone and e-mail. Ensure site's continuous functionality through hourly site checks. Created Reports with Crystal Reports for internal and external customers reporting weekly support center responses to customers.

GIS/GPS Field Technician, MicroDATA GIS, St. Johnsbury, VT   October 2003–February 2004
Relocated to project sites within the United States for extended periods of time. Collected 911 data utilizing ArcView 3.x with E9 Collector extension and took pictures of properties. Reviewed and uploaded data daily to FTP site. Troubleshooted Global Positioning System (GPS) and computer problems as necessary while in the field. Performed digitizing and building capture from maps and aerial photographs.

Junior Data Collector (Contract Position), ICF Consulting, Vienna, VA   May 2003–September 2003
Observed USPS employees and conducted work sampling and time studies as required. Ensured data accuracy and consistency of data collected.

Cartographer, Clarke Environmental Mosquito Management, Herndon, VA   July 2001–July 2003
Created treatment and surveillance maps for field technicians to use. Wrote and modified Avenue scripts to automate data processing. Created treatment maps for response for cases of malaria and West Nile virus. Analyzed aerial photography to determine potential areas where mosquitoes may breed and estimated treatment acreage based on findings. Created GPS collection protocol to reduce field technician paperwork by utilizing reverse-geocoding. Designed and created Excel reports for customers using data collected from the field and laboratory. Set up GPS units for field technicians. Provided map reading and GPS unit training to all new employees

Technical Skills

GIS Packages: ArcGIS 8.2/9.x, Autodesk Mapguide Author, MapInfo, FME, MapInfo 9.5, Quantum GIS
Languages: Ruby, C# .Net 2003-2008, SQL, JavaScript, VBScript
Testing Applications: Mercury Quick Test Pro, Mercury LoadRunner
Vulnerability Assessment Tools: Achilles, Wireshark, Paros
Relational Database Systems: SQL 2000-2008, Postgres/Postgis
Source Control: Visual Source Safe, Team Foundation Server, Git, Subversion

SPEAKING ENGAGEMENTS

http://www.slideshare.net/wonderchook

Using OpenStreetMap and QGIS for Community Mapping – FOSS4G North America, April 2012
To Map an Entire Country – Where 2.0, April 2012
Mapping for Exposure with OpenStreetMap – *International CrisisMappers Conference, Nov. 2011*
Introduction to OpenStreetMap (workshop) – FOSS4G, September 2011
Data Collaboration During Crisis: Something Old and Something New – NC GIS Conference, Feb. 2011
Enabling Collaborative Analytics for Faster Answers in a Crisis – Redlands GIS Week, Feb. 2011
Humanitarian OpenStreetMap Team in Haiti – International CrisisMappers Conference, Oct. 2010
Techniques of HOT (workshop) – International CrisisMappers Conference, Oct. 2010
Running GeoIQ/OpenStreetMap Together Offline – State of the Map, July. 2010
From Arkansas to Afghanistan How Open Data is Changing the World – State of the Map July 2010
Introduction to GeoCommons (workshop) – WhereCampSoCal, August 2010
Spatiotemporal Analysis for More Insightful Mobile Application Analysis – Sept. 2010

EDUCATION

B.A. Geography, George Mason University, Fairfax, VA   2003

A.A.S., Information Systems Technology, Northern Virginia Community College, Sterling, VA   2002

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