

NANCY E. MILHOLLAND

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ArcMap 10.x; ArcGIS Server 10.x; Web AppBuilder, Geocortex, Data models; Python; Model Builder; JavaScript, C; HTML; Java; C#; SQL; Oracle, SQL Server, FileMaker Pro 12; UNIX; Linux; Windows; Mac OS X; iOS; shell scripting, Social Media APIs; Business Objects; Remedy /HP Service Manager CMDB; Crystal Reports; ClearCase; ClearQuest; ITIL; Configuration Management; MS Office; Visio; Eclipse, Make; SCCS, Subversion; GIT; SDLC.

EXPERIENCE

Northgate Environmental Management Inc., GIS Analyst and Developer 2014 to present

- Developed GIS based mobile web application for management and tracking of work orders, asset inspections, and asset inventory. Application integrates with MaintStar work order and asset management system and uses a combination of ArcGIS Portal for Server, Web AppBuilder Developer, ArcGIS Javascript API, ArcGIS Server, and ArcSDE geodatabase.
- Redesigned and developed automated data processing and web portal publishing of hourly air quality monitoring sensor data using Python and Google APIs.
- Provide support in Geocortex development and software maintenance, Python scripting for data and map layer management, ArcSDE geodatabase maintenance and conversion, and preparing map exhibits for publishing as web map services and printed documents.

GIS Education Center, City College of San Francisco, Instructor 2015

- Developed and taught a course on Mobile Data Collection and Publishing for non-GIS professionals using mobile devices, ArcGIS Online for Organizations, Collector, ArcGIS Story Maps, and a variety of consumer-grade applications

Gsareh, Consultant 2012

- Developed data model and database for GIS training system; wrote web requirements and wireframes for website.

Genentech, Senior Software Engineer 2000 to 2012

- SME, Technical Lead and Business Analyst for development, reporting, promotion, education, customer engagement and processes related to the IT Configuration Management Database (CMDB) implementation.
- SME and Senior Administrator for Software Configuration Management (SCM) source code control and defect tracking systems

NCR, Software Engineer, System Integration Tester 1996 to 2000

- Systems integration QA tester for Teradata RDBMS communications software.
- Developed tools for SCM and network management systems; provided customer support and training.

Current GIS VOLUNTEER PROJECTS

The Bishop's Ranch, GIS Analyst and Cartographer 2014 to present

- Used mobile devices and UAV quadcopter for data collection to map trails and assets.
- Created new datasets and map products for print and online use integrating collected and county data.
- Served as an advisor on how to incorporate GIS into future operations and maintenance.

Mount Davidson Maps 2014 to present

- Developed a new [trail map](#) of Mount Davidson from data collected using iPhone, Bad Elf GPS, and consumer iPhone applications. The map was produced using ArcMap to integrate GPS data and open datasets from data.sfgov.org.
- Published a web version, [Mount Davidson Trail Map](#), and a [Mount Davidson photo gallery](#) using Story Maps, Web Appbuilder, and ArcGIS Online for Organizations.

The San Francisco Public Art Map

- Developed San Francisco Public Art website www.sfpublicart.com to provide a comprehensive and dynamic website using ArcSDE; REST services; SQL Server, JavaScript; HTML; Social Media APIs; Stamen Design basemaps; ESRI Public Information Map, and ArcGIS online.

EDUCATION

University of Southern California, *Master of Science, GIST Program*

May 2014

- Thesis: Exploring San Francisco's Treasures: Mashing Up Public Art, Social Media, and Volunteered Geographic Information to Create a Dynamic Guide," www.sfpublicart.com
- USC Spatial Science Best Thesis Award, 3rd Place 2013
- University of Southern California ESRI Development Center (EDC) Student of the Year 2013
- Robert Raskin Mapping Mashup Competition Finalist with presentation at AAG 2013
- "The San Francisco Public Art Map Application: Using VGI and Social Media to Complement Institutional Data Sources," In MAPINTERACT'13. Orlando, USA: ACM. 2013
- "[Got Pics? More Ways to Make Your Friends Jealous Through Publishing Your Geotagged Photos.](#)" 2013
- ESRI Developer Conference.
- Finalist, [See-Through Maps: Maps That Lay Bare Their Point of View.](#), Mapping Competition. 2013

Seabury-Western Theological Seminary, *Master of Divinity*

Dartmouth College, *Bachelor of Arts in Geography*

- Environmental Studies, Kenya; French Language Study, Blois, France; Outward Bound semester