

Douglas J. McNamara
GIS/3D Developer

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OBJECTIVE

Gain challenging work developing and utilizing new and existing software technologies for GIS and 3D analysis.

SUMMARY

Graduated with an honors degree in Computer Science. A hard worker with strong skills in Magik, .NET, C++, Java, Visual Basic, and Perl. Extensive experience programming against Smallworld VMDS, SQL Server, Oracle and Access databases. Extensive knowledge and experience developing web applications using LAMP development (Linux, MySQL and PHP). Experience using ESRI software. A quick learner who genuinely enjoys computer programming and GIS.

WORK/CLIENT HISTORY

Spatial Business Systems, Lakewood, Colorado **2007 - Present**
Smallworld GIS Consultant

- Develop suite of Munit tests to verify API and data model for new Design Manager compatible unit functionality delivery by SBS to GE.
- Develop Magik/XML application to support mobile deployment of PowerOn data to field crews for Vectren Corporation.
- Upgrade compatible unit data interface for new GE Design Manager data model.
- Create processors to interface between IBM Maximo and Design Manager using XML.
- Create XSD to specify XML format for interface between IBM Maximo and Design Manager.

TerraGraphics Environmental Engineering, Inc **2007 - Present**
GIS Programmer Consultant

- Developed applications to automate the creation of CWE reports.
- Transferred field collected data to base GIS data using ESRI editing tools.
- Entered data into ESRI geodatabase tables and feature classes.
- Performed quality assurance of data entry and digitizing tasks.

QCoherent Software, LLC **2008 - Present**
GIS Programmer Consultant

- Developed static C++ libraries to classify Light Detection and Ranging (LIDAR) data as to building and extract building footprints from the LIDAR data.
- Developed C++ routines to perform GIS operations of INTERSECT, BUFFER and convex and concave HULL operations.
- Developed C++ routines to perform regularization and orthogonal squaring of polygons and export these polygons to ESRI shapefiles.

CityMelt.com **2008**
GIS Programmer Consultant

- Develop online charts and graphics to represent census data through a LAMP application interfacing to a MySQL database.
- Develop a slider-based user interface enabling web users to customize geographic searches for places of interest across the U.S.
- Provide spatial analysis and debug of the census data within the CityMelt database, particularly with respect to relationships between county and city data.

CSC/IBM CINERGY/DUKE, Plainfield, Indiana
Smallworld Consultant

2004 - 2006

- Developed applications and fixes as part of a Service Requests project including: street intersection search functionality to a Smallworld web application; application for reserving unique gas valve numbers so that valves could be entered into an Oracle database at a later date and to ensure that duplicate valve numbers were not entered; application to determine deletion of geometries representing gas valves based on specified rule sets.
- Developed scripts and database updates for the Regulator and Relief Valve Maintenance System (RRMS) project: converted old RRMS mainframe database system to Smallworld and SQL Server; created processes that would be run on a monthly and nightly basis to transfer data from Smallworld to SQL Server.

GE NETWORK SOLUTIONS (GENS), Englewood, Colorado
Smallworld Consultant

2001 - 2003

- Reviewed, tested and fixed bugs in GE's Smallworld Design Manager.
- Worked in areas of the Design Manager product versions 20, 21, 21A and 22 which includes: Design Browser, Point Span Editor, AVA Use and AVA Setup.
- Developed PERL scripts to help in generating TSB documents, documents released with each Design Manager TSB that describes all new and existing patches for each Design Manager product.

PROGRAMMING PROJECTS AS EMPLOYEE OF DOGLEG SYSTEMS, INC.

2000 - 2002

- Developed a web automation programs in Java for registering Dogleg System's web pages in a periodic and timely fashion and collecting distributor product data from the web.
- Developed Perl scripts for auto searching seven major search engines based on specific key words and auto-generation of web pages that made up Dogleg Systems web site.
- Developed CGI scripts for creating and verifying users to a web application that queried local NJ golf courses for available tee times and made reservations based on user inputs.

OTHER PROJECTS

- Implemented VB to Perl COM interface for diffTrack, a McNamara Consulting application to track data discrepancies between data sources and across time.
- Developed an image-processing program in C++ for overlaying a foreground image over a background image with a blue screen effect.
- Developed binary tree data structure with custom search geometries for reading and writing to LIDAR LAS files.

EDUCATION Total GPA: 3.83

- **Brookdale College Lincroft, New Jersey** Associates in Computer Science, Deans List May 2000
- **Brookdale College Lincroft, New Jersey** Associates in Arts, Deans List May 1996

References available upon request.

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