

**REGGIE WILBANKS**

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## **TECHNICAL EXPERIENCE**

### **LANGUAGES**

ActionScript, AIR, ASP, ASP.NET, C, C#, C++, Clipper, ColdFusion, dBase, Flex, Fortran, HTML, Java, Javascript, MXML, Node.JS, Objective-C (iOS Development), PHP, Python, PowerBuilder, SQL, Swift, Visual Basic, Visual Basic.NET, XML.

Currently working in C#, but can adapt to different languages with relative ease.

### **API'S, TECHNOLOGIES, AND FRAMEWORKS**

ArcFM, Bootstrap, Cairngorm, ESRI ArcObjects, ESRI MapObjects, GIT, Hadoop, Hibernate, Mapquest Advantage API, MVC, .NET Framework, REST, Spring, Spring.NET, SVN, ZooKeeper.

### **OPERATING SYSTEMS**

Citrix, DOS, Linux, MS Small Business Server, Novell, NT Server, NT Workstation, OS/2, OSX, Parallels (Virtualizer) UNIX, VM Player (Virtualizer), VM Server (Virtualizer), VM Workstation (Virtualizer), Windows 3.1/95/98/NT/2000/XP/2003,VISTA,7,8 Windows CE/CE.NET, Xen.

### **DATABASES**

HBase, HSQLDB, SQL Server 6.5/7.0/2000/2005/2008, Access 2.0/97/2000/XP, Oracle, MongoDB, MySQL, PostgreSQL.

### **CERTIFICATIONS**

Microsoft Certified Application Developer for Microsoft .NET, Microsoft Certified Access Developer, Microsoft Certified Visual Basic Developer, Microsoft Certified Professional, Microsoft Certified Professional + Internet, Micro-soft Certified Product Specialist, Microsoft Certified Systems Engineer, Microsoft Certified Solution Developer, TCP/IP & Microsoft Internet Information Server Certifications.

## **WORK HISTORY**

### **SENIOR SOFTWARE LEAD, PACIFICORP; PORTLAND, OR— APRIL 2014 - PRESENT**

Designing and implementing a system architecture, process, and suite of software for mobile users in the Joint Use Inspection group.

The back end solution involves optimized dissemination of large data sets to nearly 50 satellite locations across the United States through various automated jobs using a combination of operating system scripts and custom applications written in C#.

The front end solution involves custom software (also written in C#) to assist Joint Use Inspectors in quickly and effectively conducting field inspections using Panasonic Toughpads. These Toughpads periodically communicate bi-directionally with the satellite locations to receive data updates and transmit completed inspections.

## **VP OF ENGINEERING, THETUS CORP; PORTLAND, OR — APRIL 2012 - MARCH 2014**

Reported directly to the CEO, and worked side-by-side with the CTO to define the architectural roadmap and technical direction for the company.

Directly managed six Director level reports, and was responsible for an engineering staff of 50+ developers.

Managed engineering resource staffing, held performance reviews, approved vacation requests, participated in the interview process as well as made hiring decisions, acted as a stakeholder, company representative, technical evangelist, and was ultimately responsible for all software engineering for the company.

## **APPLICATION LEAD, THETUS CORPORATION; PORTLAND, OR — 2009 - MARCH 2012**

This role was an equal mix of development and managerial duties.

Developed with (as well as led) a group of developers using Adobe Flex, Java, and BlazeDS, to develop the Thetus flagship product Savanna. Savanna is a web based semantic modeling and analytic platform designed to facilitate the science and art of defensible story telling.

Designed and developed a Flex module loading framework to support dynamic loading and unloading of code module sets based on constraints such as access control lists. This proved very useful to break up the monolithic nature of Flex applications and dramatically decrease application load times.

Led a group of up to twelve developers. Directed day to day work, held performance reviews, approved vacation requests, participated in the interview process, and disciplinary actions.

## **SENIOR SOFTWARE ARCHITECT, GEONORTH LLC; PORTLAND, OR — 2009 - 2010**

Re-engineered the City of Portland GIS Map Servers (used as the back-end for [PortlandMaps.com](http://PortlandMaps.com)). Designed a new .NET structured environment, and migrated original code (C and VB) to C#.

## **SOFTWARE ENGINEER, UNIVERSAL MIND INC; PORTLAND, OR — 2008 - 2009**

Member of the SpatialKey.com team. Developed a server architecture in Java to communicate with the SpatialKey client application utilizing technologies such as Java, servlets, JBoss, BlazeDS, and the Spring framework.

Developed a data detection and geocoding engine to geo-reference source data. The geo-referencing options included coordinate re-projection and street address geocoding. This system was implemented in both Adobe AIR, and Java.

Developed AS3 & Flex components for use within the SpatialKey client application.

## **SENIOR SOFTWARE ARCHITECT, GEONORTH LLC; PORTLAND, OR — 1999 - 2008**

Worked with private sector, as well as local, state, and federal government clients to design and develop a wide variety of custom GIS and database solutions ranging from utility management to homeland security.

Developed the back end GIS server technology used by the City of Portland for [PortlandMaps.com](http://PortlandMaps.com) (as well as all GIS server related internal business). This enterprise system was originally developed using ESRI ArcObjects, using C and VB, and then re-architected in a .NET structured environment where all code was migrated to C#.

Conceived, designed, and developed several commercial software products:

**QueryPal** - An ArcGIS extension for seamless querying of GIS features and external databases (e.g., permitting, billing, facilities, assessment, etc.) Users can quickly connect to data and set up queries with easy-

to-use wizards and an intuitive configuration interface. Version 1 was written in VB, Version 2 was written VB.NET.

**CartaVision** - An ArcGIS extension providing a radically simple process for publishing maps on the Internet. It is an entry-level Internet Mapping System that does not require a web server. It is ideal for publishing GIS project information or easily adding interactive mapping to web sites. Version 1 was written in VB, version 2 was written in VB.NET (back end), with a Flex 2.0 front end.

**MapCandy Symbols** - Adds stunning graphic symbology to ArcMap, ArcGIS server, and ArcIMS (via GeoNorth's CartoPort product). Uses the native .NET GDI+ graphics libraries to provide full control over anti-aliasing, interpolation, and transparency settings for fantastic looking markers, lines, and fill symbols. Written in VB.NET.

**GeoClarity** - An enterprise integration server technology that can spatially enable enterprise systems and provide non-GIS systems and applications with GIS functionality. This product allows non-GIS systems to communicate with GIS systems, and with each other, providing true enterprise integration. Systems can easily access GIS functionality, and GIS applications can easily access functionality and data provided by other systems. Written in VB.NET and C#.

Designed and developed in-house solutions, such as the GeoNorth Product Activation System for online product activation and management.

Supervised, managed, and mentored developer groups throughout several product and project development life cycles.

#### **APP DEVELOPER, INTEGRITY SOLUTIONS, INC.; ANCHORAGE, AK — 1997 - 1999**

As an Application Developer; produced custom applications such as billing systems, reporting applications, and time tracking databases, primarily focused for customers in the oil and gas industry.

As a Systems Consultant; designed network topologies, disaster recovery plans, performed on-site custom database installations, as well as network and software configurations.

#### **APPLICATION DEVELOPER, COMPUTER TASK GROUP; VALDEZ, AK — 1995 - 1997**

As the Maximo Database Administrator for Alyeska Pipeline Service Company; worked on-site in Valdez, Alaska in the CTG "Applications Management Group" managing the Alyeska Maximo work management system, featuring a "Gupta SQL" database running on a Novell network.

As a Systems Engineer; designed and implemented a Microsoft Windows network pilot project, which included a Multi-domain Network Topology, Backup Strategy Plan, C2 Security Plan, and Disaster Recovery Plan. This pilot would eventually serve as the model for Alyeska's global network.

#### **OWNER, RAW SOFTWARE & CONSULTING — 1990 - 1995**

A variety of custom software development and consulting projects in the states of Alaska and Texas.

#### **APPLICATION/DATABASE DEVELOPER, VECO; VALDEZ, AK — 1989 - 1990**

Developed and maintained the vessel tracking system that tracked and reported on over 1,500 oil cleanup vessels during the Exxon Valdez oil spill.

## **EDUCATION**

University of Alaska-Anchorage — Computer Science, 1992 - 1994

Montana State University-Bozeman — Computer Science, 1990 - 1992

## **OPEN SOURCE PROJECTS**

### **AUTHOR, SCANNED.IN SQRL AUTHENTICATION SYSTEM**

<https://youtu.be/2d4vEvtSsF4>

Scanned.in is a free and open source SQRL authentication system. SQRL (Secure Quick Reliable Login) is an easy-to-use, high security replacement for usernames and passwords. It combines out-of-band authentication with elliptical curve cryptography to provide a highly secure method of identification and authentication for the web. Scanned.in includes a Node.js SQRL server implementation, and an iOS client implementation.

### **CONTRIBUTING AUTHOR, GOLD PARSING SYSTEM**

<http://goldparser.org/contributors/>

“GOLD is a free parsing system that you can use to develop your own programming languages, scripting languages and interpreters. It strives to be a development tool that can be used with numerous programming languages and on multiple platforms.”

## **INTERVIEWS & PUBLICATIONS**

### **COMPUTER WORLD SEPTEMBER 2008; “CAN WEB 2.0 SAVE BI?”**

<http://www.computerworld.com/article/2551284/business-intelligence/can-web-2-0-save-bi-.html>

SpatialKey was featured on the cover, and in an article entitled “Can Web 2.0 save BI?”

### **GISMONITOR; 2006 NOVEMBER 30 & 2006 DECEMBER 7**

<http://archives.profsurv.com/magazine/article.aspx?i=70361>

<http://archives.profsurv.com/magazine/article.aspx?i=70357>

Interviewed on technology topics and Geographic Information Systems development.

### **ARCNEWS SPRING 2004; “ENABLING THE IT ENTERPRISE WITH GIS FUNCTIONALITY”**

<http://www.esri.com/news/arcnews/spring04articles/enabling-it.html>

Co-authored an article on developing Enterprise Geographic Information Systems.

## **TEACHING & PRESENTATIONS**

### **ADJUNCT FACULTY, PWSCC; “COMPUTERS & THE INTERNET” — 1996**

Taught a course on Computers and the Internet, which gave an introductory look at using computers in the emerging digital age.

### **GEOTEC EVENT 2007; “SHARING APIS”**

Gave a technical presentation on developing computer systems and web services, and how best to expose application programming interfaces to maximize cohesiveness across enterprise systems. This presentation also discussed typical uses of XML and REST API's to expose functionality amongst disparate corporate environments.

### **GEOTEC EVENT 2007; “MAXIMIZING PRODUCTIVITY THROUGH EXTENSIBILITY”**

Gave a technical presentation on extensibility from the application development perspective. The presentation focused on the fundamentals involved in creating systems that support plugin architectures and published interfaces.

### **NW GIS USERS CONFERENCE 2004; “ENABLING THE IT ENTERPRISE WITH GIS FUNCTIONALITY”**

Gave a technical presentation on developing GIS enabled enterprise level infrastructures.