

Scott W. Powers

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EDUCATION

1994 Masters - Computer Science, Ball State University, Muncie, IN
1993 Bachelors - Computer Science, Ball State University, Muncie, IN
1987 High School - Honors in Computer Science, Denton High School,
Denton, TX

AFFILIATIONS

1993 - 1994 - Association for Computer Machinery
President, Ball State University Chapter
1992 - 1994 - Association for Computer Machinery
Member, Ball State University chapter

SKILLS

Skill Name	Skill Level	Experience
C++	Expert	12 years
C	Expert	18 years
PHP	Expert	7 years
Java (GWT)	Expert	1 year
DHTML/CSS/JS	Expert	7 years
MySQL	Expert	7 years
Lua	Expert	5 years
Qt (qt.nokia.com)	Expert	11 years
Unix - Solaris	Expert	5 years
Unix - SGI Irix	Expert	7 years
Unix - Linux	Expert	17 years
Mac OS X	Expert	1 year
Windows - 2000, NT, XP	Expert	10 years

WORK EXPERIENCE

06/2002 - Present, Concept Keys, Inc.

Benbrook, TX
Director of Engineering, Partner
+1-817-996-2808

- In charge of all development, design, and implementation.
- Website development utilizes the PHP language and MySQL database.
- Core system is written in object-oriented PHP and transfers to all the Concept Keys websites as their base level.
- All the Concept Keys websites have a user system based on access control lists, allowing for online maintenance as well as user settings.
- Online credit card transaction system, SSL secure.
- Concept Keys content is written and stored using XML.
- Designed and developed an application which allows anyone to create their own CK program. This project utilizes C++ and the Qt framework (open source). 2009 has seen continued development on this project utilizing the latest Qt product line.
- Automated mailing system written in PHP delivers the content in the desired format to the specified timezone.
- You can find these systems online at: www.conceptkeys.com

06/2007 - Present, You & Me Business Consulting, Inc.

Gaithersburg, MD
Director of Engineering, Partner
+1-240-393-1101

- In charge of all development, design, and implementation.
- Website projects utilize PHP and MySQL.
- Standalone programming projects utilize C++ and the Qt Framework.
- Projects range from simple websites to complex database back-ends to data transfer protocols from a standalone program to a website back-end via HTTP.
- Install and maintain several blogging systems.
- Systems administrator for all unix systems.

06/2007 - Present, PW1 Consulting

Benbrook, TX
Owner
+1-817-797-6016

- In charge of all development, design, and implementation.
- Website contracts utilize PHP and MySQL.
- Standalone contracts utilize C++ and the Qt Framework.
- iPhone Apps utilize the Corona toolkit (Lua language).
- Projects range from simple websites to complex database back-ends to iPhone applications.
- Platforms include: Mac OS X, Windows XP, Linux, and iPhone OS 3.0+.

02/2005 - 06/2007, Pointwise, Inc.

Fort Worth, TX
Sr. Software Engineer

- In charge of GUI design and development utilizing the Qt Framework.
- Designed GUI/Command framework for the product Pointwise.
- Framework allowed inline creation of the GUI which resulted in uniform commands. Another benefit was well structured code which simplified debugging.
- Designed and developed a high-performance Tree View widget, utilizing Qt, used in the product Pointwise.

- Designed and developed the in-application Help Browser system used in the product Pointwise.
- Created a full-blown license creation and tracking system utilizing PHP, MySQL, and the FlexLM command-line license generator. This system also imported all available/compatible prior license history.
- Tools used: MS Visual Studio, Trolltech's Qt Toolkit, PHP, and MySQL

**09/1997 – 05/2002, Raindrop
Geomagic, Inc.**
RTP, NC
Software Engineer

- In charge of GUI design and development utilizing the Qt GUI/Application toolkit (www.trolltech.com).
- Designed GUI/Command framework which was used for all applications.
- Framework allowed inline creation of the GUI which resulted in uniform commands. Another benefit was well structured code which simplified debugging.
- Developed an XML system for defining the interface, menus, toolbars, and various toolboxes. This provided custom application solutions in a matter of hours, rather than days.
- Created an interface library for the FlexLM licensing toolkit which provided hooks for all license types and worked hand-in-hand with the XML definition file, providing an interface based on license configuration.
- Built several internal utility applications: A dialog prototyper, automated build system, an icon viewer (putting icons in supported sizes on toolbars, showing sensitivity, etc), and a password manager for the internal server. All applications were implemented for cross-platform use between unix and win32.
- Managed the CVS repository and built a system which parsed the log files to pull out pertinent log information which was automatically put online in HTML format and run through a search indexer (htdig) to provide log searching.
- My primary platforms were Solaris and SGI/Irix, however a significant amount of development took place on win32.
- Tools used: GNU C++, Solaris Compiler, SGI/Irix Compiler, MS Visual Studio, Trolltech's Qt Toolkit, Globetrotter's FlexLM licensing system.

**08/1996 – 01/1999, Parkland
College**
Champaign, IL
Part-time Faculty

- Taught Computer Graphics I and II courses. Each class was one semester in length and they were back to back.
- Primary focus was implementation of graphics concepts in C and C++ using OpenGL.
- Classes were taught at the Beckman Institute (N.C.S.A. and the University of Illinois at Urbana-Champaign) on SGIs.
- The second course was one long project that built on itself, ending in a 3d walk through world. The final projects were also dubbed out to VHS for each of the students and a highlight of the projects were produced as future "advertisement" for the courses.

**10/1994 – 09/1997, National Center
for Supercomputing Applications
(N.C.S.A.)**
Champaign, IL
Research Programmer

- Systems Administrator: Designed and implemented a system for handling all of the websites the Software Development Group, maintained for several unix systems.
- Visualizations Group Project Lead and Developer: Development of a cross-platform C++ framework for the Alpha Shapes project.
- HTTPd Technical Lead and Developer: Maintenance and development of the 4.0 and 5.0 series of the HTTPd project.
- X/Mosaic Lead and Developer: Started as solely a developer for the X/Mosaic project during the 2.4 release. Took over as lead for the 2.5 - 2.7 releases.

References

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