

## Summary

Adaptable developer with solid experience developing for Windows, extensive knowledge of web development on Unix platforms, and design and writing skills.

## Experience

### Independent Software Developer

November 2008 to Present.

- Writing a RIA application that interacts with Twitter, AIM, and Facebook via **REST** and other protocols using **Flex** and **Adobe AIR** and **SVN**: <http://phalangesoftware.com/attneveryone/>
- Writing a book-organizing web application on **Google App Engine** in **Python** and **Javascript**, using **JSON**.

### Indiana for Change, Obama for America – Data Fellow

October 2008 to November 2008.

#### Accomplishments:

- **Automated** a time-consuming process with **Greasemonkey** scripts written in **Javascript** to save days of manual effort.
- Automated spreadsheet processing and analysis tasks using **Perl** to save days of manual effort.
- **Analyzed** large databases (with tables containing 4.5 million records) to help make decisions about canvassing targets. Used **MySQL** and **Perl** to complete the task, using MySQL optimization features to ensure queries finished in a reasonable amount of time.
- Implemented a web-based backup system for the voter activation network that provided canvassing walk packets, and turf maps needed by field organizers on election day. Adapted and extended a **PHP** script, set up a **MySQL** database on a Linux server, and added **AJAX** features.

### Hiatus

May 2008 to October 2008.

Research in **Flash**, **Django**, **Google App Engine**, and **Ruby on Rails**.

### GN ReSound – Senior Software Developer

July 2004 to May 2008.

#### Responsibilities:

- Implement features by writing code in:
  - **C++**, using **STL**, **ATL (COM)**, **MSXML 4.0 (DOM)**, **XPath**, and **MFC** in **Visual C++ 6.0**.
  - **C#**, using **Windows Forms** in **Visual Studio 2005 and 2008** with **MBUnit**.
  - **SQL** in a **Firebird** database.
- **Rapid prototyping** of new UI designs in **Flash** for marketing approval and usability testing.

- Write and present design documents and requirements documents for new features using specifications.

### Accomplishments:

- Ported data representation layer from **C++** to **C#**, using **Perl** to translate IDL files into C# skeleton classes.
- Wrote generic cloning code that uses **.NET Reflection** to "deep copy" any object regardless of type and its members and its members' members.
- **XML** layer. Researched XML parsing/editing and wrote a utility layer (in C++) that shields other developers from have to deal directly with MSXML. Now in use by several projects in the product.

### InstallShield Software Corporation – Software Developer August 2000 to July 2004.

- Worked in **C++**, using **STL**, **ATL (COM)**, the **Win32 API**, and **MFC** in **Visual C++ 6.0 and 7.0** environments. Occasionally used **Visual Basic**.
- **Visual Studio integration**. Integrated the InstallShield DevStudio development environment into the Visual Studio .NET shell as part of a two-person team in a timeframe of three months without previous exposure to the Visual Studio Integration Program SDK.

## Education

### Northwestern University, Evanston, IL

**BS in Computer Science, 1999.**

## Skill Summary

Skill	Years Used	Last Used
ActionScript/Flex/Flash	3	Currently using
Python	3	Currently using
Javascript	4	Currently using
CSS	2	Currently using
HTML	10	Currently using
Photoshop	7	Currently using
Perl	3	Within the last year
PHP	4	Within the last year
SQL (MySQL, Firebird, Access)	6	Within the last year
XML parsing	4	Within the last year
C#	2	Within the last year
C++	8	One year ago
MFC	7	One year ago
ATL	7	One year ago
COM	7	One year ago

## References

Available upon request.