

Programming Languages

Proficient Experience

- C#
- Java
- Perl

Some Experience

- Python
- PowerShell
- C++
- LISP
- Matlab
- Fortran
- SML
- Prolog

Education

Ball State University
Muncie, Indiana
Fall 2008 - Summer 2012
Bachelor's: Computer Science
Minor: Applied Physics-Nanoscience

Web Technologies

- HTML/CSS
- JavaScript
- jQuery
- Bootstrap
- Node.js
- Ember.js
- XSLT
- ASP.NET
- SOAP
- REST

Platforms

- Windows Server 08/12
- Linux (Ubuntu)
- Microsoft IIS
- Microsoft SQL
- PostgreSQL
- Salesforce
- CIC
- PureCloud

Tools and Applications

- Visual Studio
- Eclipse
- Android Studio
- Git
- Mercurial
- SVN
- Perforce

Experience

Software Engineer, Development Services – PureCloud

July 2015 - Present Interactive Intelligence, Indianapolis, IN

- Design, consultation, and development of custom applications, services, web applications and services, and client add-ins for call center and business users.

Senior Implementation Engineer, Professional Services

February 2015 - July 2015 Interactive Intelligence, Indianapolis, IN

- Expansion upon prior responsibilities to include; design and development of reusable packaged solutions, internal development and configuration tools, authoring of training material, and mentorship roles

Implementation Engineer, Professional Services

June 2012 - February 2015 Interactive Intelligence, Indianapolis, IN

- Custom IVR development, server configuration and management, requirements gathering and authoring, technical project management roles

Science Undergraduate Laboratory Intern, Computation Sciences and Engineering Division

May 2011 - August 2011 Oak Ridge National Laboratory, Oak Ridge, TN

- Database scalability research, Linux server administration, Programming in Perl and Fortran, Virtual Machine deployment and management

Projects

- **Elemental**
 - Periodic table application for Android phones.
- **Morgan's Raid**
 - Educational computer game about the American Civil War in Indiana.
- **Radial Probability Density and Self Consistent Field Potential**
 - Calculation and modeling of radial probability within atomic structures.
- **Los Alamos Employee Management System**
 - Restaurant employee profile, scheduling, payroll management system.
- **Foresight and Understanding from Scientific Exposition**
 - Project to store and analyze scientific articles for emergence of new research trends.
- **LogSlicer**
 - Log collection utility for CIC systems.
- **WavMaker**
 - Text to Speech audio file generator for CIC system IVR prompts.
- **PureCloud API Enablement**
 - Authoring of technical training material

Publications

- **Phase Space Dissimilarity Measures for Structural Health Monitoring**

http://www.osti.gov/bridge/product.biblio.jsp?osti_id=1029952

A novel method for structural health monitoring (SHM), known as the Phase Space Dissimilarity Measures (PSDM) approach, is proposed and developed.