

# Christopher J. McDonald

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Web-based Resume: <http://wraithan.readthedocs.org/>

## **MISSION:**

Write open source software in order to make the software community and, more generally, society better than how I found it.

## **TECHNICAL SKILLS:**

### **Programming Languages:**

- 5+ years experience with Python, JavaScript, and SQL.
- 2+ years experience with C++, Perl, PHP, Java, and Lua.
- 1+ years experience with Haskell, C, and C#.
- Have played with many others including Common Lisp, Ruby, Go, and Clojure

### **Databases:**

- 3+ years experience with PostgreSQL
- 2+ years experience with MySQL and Redis

### **Platforms:**

- Developed on Linux, OSX, and Windows.
- Experience deploying to a variety of Linux distributions.

### **Software:**

- Experienced with a large variety of VCSs, issue trackers, and project management software.

## **JOB EXPERIENCE:**

### **Aquameta LLC, Portland OR**

**March 10 – Feb 12**

#### **Senior Software Developer**

- Helped to implement, maintain, and extend a large Django application that powered 3 sites.
- Utilized large amounts of caching and offloading using Redis and Celery.
- Upgraded Django between major version twice. From 1.1 to 1.2 and 1.2 to 1.3.
- Pushed for large amounts of testing, resulting in hundreds of unit and integration tests being written and maintained.
- Wrote and maintained one click deployment scripts using Fabric.
- Interfaced with clients regularly to gather and clarify requirements for features.

### **Parthenon Software Group, Portland OR**

**Sept 09 – Nov 09**

#### **Software Developer**

- Updated unit tests, allowing for more confidence that the application was correct.
- Met with clients to discuss and advise on what course to take for re-designing their software.
- Implemented feature requests, fixing existing bugs in the module while adding the feature, resulting in cleaner, better documented code.

### **Criticalpath Software, Portland OR**

**May 08 – Aug 08**

#### **QA Tester**

- Wrote and executed test plans, tracking progress and reporting defects.
- Worked with a team to decide on software milestones and requirements.
- Set up many different hardware/software configurations for testing.
- Wrote a tool using C++ to generate data for testing.
- Assist in delegation of various portions of testing to help train new members of the team prior to product release.

**Transim Technology, Portland OR**

**Dec 05 - Aug 06**

**Intern SW Developer**

- Cleaned up and maintained several in-house tools written in Perl, Java, and PHP for processing and displaying circuit schematics.
- Created a GUI for two of the in-house tools so that non-technical staff could assist in processing schematics that needed human interaction.
- Implemented a secure login system with detailed permission setup.
- Documented all of the above mentioned work, along with a large portion of a Java based webserver back-end.

**GROUPS & AFFILIATIONS:**

**SE Portland Coder's Night**

- A user group that I founded and organize that meets every week to work on projects, discuss technology and generally be social.

**PDX Python**

- A user group of Python Developers that meet once a month to discuss various projects and libraries. I occasionally give talks at this.

**PERSONAL PROJECTS:**

- Contribute to and help support Read the Docs, a site for hosting software documentation written in Django.
- Wrote an IRC bot using micro-services, a custom protocol, and using Redis's pub/sub for a communication transport.
- Participated in aichallenge.org's competition with an entry written in Python using PyPy.
- Battery monitor plug-in for XMobar written in Haskell to learn the language and help an open source project.
- Contributed to an open source game engine written in lisp by making how primitives are drawn a bit more intuitive and map more directly to how the underlying OpenGL implementation does it.

**References are available upon request.**