

# Michael Kelly

*Web Application Developer*

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## Experience

- 2014–Present **Web Application Developer**, *DQE Communications*, Pittsburgh, PA.  
Maintained the Customer Control Center (CCC) application.
- Maintained and modernized a Java based web application to manage network services for our customers [Java, Spring(MVC), Hibernate, Struts, iBATIS]
  - Integrated with 3rd party network provisioning systems (Aspen, Junos Space) over CORBA and RESTful XML APIs [CORBA, REST, XML]
  - Integrated with 3rd party CRM system (NetSuite) over RESTful APIs [REST, JSON]
  - Improved the reliability of the system by adding automated testing, reproducible builds. [JUnit, Maven]
  - Mentored junior developers.
  - Modernized server architecture, with an eye towards "Devops". [Puppet]
  - Improving the availability of the application by adding redundancy. [Galera, HAProxy, GlusterFS]
- 2013–2014 **Software Engineer II**, *PNC*, Pittsburgh, PA.  
Engineer for the PNC.com team.
- PNC Locator: maintenance and improvements to the ATM and Branch locator website and data loading process [Java, JDBC, Oracle]
  - Adobe CQ: worked with vendors and designers to develop and integrate sites on the Adobe CQ platform [Java, OSGi]
- 2008–2013 **Software Developer I/II**, *pair Networks*, Pittsburgh, PA.  
Developer for the Account Control Center team.
- pairSIM (Software Installation Manager): tool for "one click" installations of popular web applications for customers (e.g. WordPress, Drupal, etc) [Perl]
  - System Notification System: system to allow customers to subscribe to notifications about outages for their servers, or larger scale outages [Perl, MySQL]
  - Backups file browser [Perl, jQuery-UI]
- 2007–2008 **Student Consultant**, *Computing Services Help Center*, *Carnegie Mellon University*, Pittsburgh, PA.

- 2006 **Student**, *Google Summer of Code*.  
Student for Gentoo Linux.
  - Worked on an addition to Gentoo's package management software, to improve management of system users installed for packages
  - Gained experience with writing project proposals, open source project development
- 2005–2006 **Student Consultant**, *Computing Services Help Center, Carnegie Mellon University, Pittsburgh, PA*.  
Provided customer support for CMU students, faculty, and staff.
  - Nominated Student Employee of the Year, 2006
  - Wrote a customer sign-in web application, to handle the queue of walk-in customers [Java]

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## Education

- 2011–2014 **MS in Information Science**, *University of Pittsburgh*.
- 2003–2008 **BS in Cognitive Science**, *Carnegie Mellon University*.

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## Selected Open Source Projects

- 2012 **Contributor**, *SSHFS*.  
Added uid/gid mapping functionality, while working for *pair Networks*.
- 2007–2011 **Developer**, *Exherbo*.  
Developer for a "Gentoo-inspired" Linux distribution.
  - Helped draft multilib (mixed 32-bit and 64-bit) platform support
  - Improve configuration framework tools (eclectic)
  - Initial support for "alternatives" (allowing multiple packages providing the same functionality to be installed at the same time)
- 2006–2011 **Developer**, *Paludis*.  
Developer for a package manager for Gentoo & Exherbo.
  - Worked on portability improvements to support FreeBSD
  - Helped implement improved package source code integrity checking ("Manifest2")
  - Experience with: Shell, C++, Ruby
- 2006–2007 **Developer**, *Gentoo Linux*.
  - Maintained various software packages
  - Improved some configuration framework tools (eselect)

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## Technical Skills

Java	J2EE, OSGi, JDBC	HTML5	compatibility shims
JavaScript	jQuery, Prototype.js	SQL	MySQL, SQLite, Oracle
Perl	portable code, XS	Platforms	Linux, FreeBSD, Windows, Mac OS X