Michael Kelly

Software Engineering Manager

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Experience

2023–Present   **Sr. Manager, Engineering**, *Proofpoint*, Pittsburgh, PA
- Lead 2 teams of software engineers (11 in total), one focused on bug fixes and "quick wins", the other on email client integrations for reporting suspicious emails (PhishAlarm).

2021–2023   **Sustaining Engineering Manager**, *Proofpoint*, Pittsburgh, PA
- Lead a team of 6 software engineers, working to fix bugs in various parts of the Proofpoint Security Awareness Training (PSAT) product portfolio.

2020–2021   **Senior Application Support Developer**, *Proofpoint*, Pittsburgh, PA
- Identified root cause of, and fixed, various tricky or lingering bugs in the Proofpoint Security Awareness Training (PSAT) product portfolio

2020   **Senior Software Engineer**, *DQE Communications*, Pittsburgh, PA

2014–2020   **Web Application Developer (Software Engineer III)**, *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, reproducable builds. [JUnit, Maven]
- Built features based upon a message oriented middleware architecture. [ActiveMQ]
- Mentored junior developers.
- Coordinated efforts of multiple consultants.
- Modernized server architecture, with an eye towards "Devops". [Puppet, GitLab CI]
- Improving the availability of the application by adding redundancy. [Galera, HAProxy]
- Migrated our OSS/BSS (CCC) from on-prem VMs to Elastic Beanstalk on AWS, along with RDS and MQ. [AWS, RDS, MQ]

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]

Education

2011–2014 **MS in Information Science**, *University of Pittsburgh*

2003–2008 **BS in Cognitive Science**, *Carnegie Mellon University*

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.

2006–2011 **Developer**, *Paludis*
Developer for a package manager for Gentoo & Exherbo.

2006–2007 **Developer**, *Gentoo Linux*
- Maintained various software packages
- Improved some configuration framework tools (eselect)

Technical Skills

Java	Spring Framework, JPA	HTML5	compatability shims
JavaScript	jQuery, Prototype.js	SQL	MySQL, PostgreSQL, SQLite, Oracle
AWS	S3, Lambda, etc	Python	One-off scripts, Lambdas
Perl	portable code, XS	Platforms	Linux, FreeBSD, Windows, Mac OS X

Activities

2023–Present **Cubmaster**, *Cub Scout Pack 435*

2019–Present **Den Leader**, *Cub Scout Pack 435*

2004–2008 **Alpha Phi Omega**, Carnegie Mellon University, National Service Fraternity

Honors

2001 **Eagle Scout**, *Boy Scouts of America*