

# Michael Kelly

## Software Engineering Manager

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### Experience

- 2023–Present **Sr. Manager, Engineering, Proofpoint, Pittsburgh, PA**
- Lead 3 teams of software engineers (12 in total), one focused on bug fixes and "quick wins", the other on email client integrations for reporting suspicious emails (PhishAlarm), and the third on integrating a more powerful LMS engine, including several large refactorings/re-platformings to improve the overall availability of our products.
  - Lead an Observability working group within the business unit, ensuring our teams are able stay ahead of performance and reliability issues impacting our customers, reacting before our customers are aware of a problem.
- 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, reproducible 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

## Honors

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