

KEVIN LYNCH

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570 N. 23rd Street 8A ◊ Philadelphia, PA 19130

EDUCATION

Master of Science in Computer Science

Drexel University

January 2010

Philadelphia, PA

Bachelor of Science in Computer Science *Summa Cum Laude*

Drexel University

Minors in Mathematics and Philosophy

September 2007

Philadelphia, PA

TECHNICAL STRENGTHS

Languages	Python, Ruby, Shell, C/C++, Java, JavaScript, SQL, XSLT, Lisp, Stratego
Frameworks	Django, Ruby on Rails, Android, GWT, Java EE, Spring
Software	PostgreSQL, MySQL, Apache, Tomcat, JBoss, Amazon Web Services, KVM, ESXi, VirtualBox, Git, SVN, Emacs, Eclipse, Jenkins, Sonar, Maven, Puppet, Chef, Nagios, Cisco IOS

PROFESSIONAL EXPERIENCE

Drakontas LLC

Lead Software Engineer

June 2012 - present

Glenside, PA

- Leads the design and development of a web and mobile based command and control system for the security sector
- Introduced engineering and operations best practices to automate the deployment, testing, and recovery processes
- Streamlined the release process to integrate seamlessly with resellers' business and production environments
- Consults with customers in the specification of new requirements, and lead the design and implementation of the services necessary to satisfy the requirements

Drexel University

Graduate Research Assistant

March 2008 - June 2012

Philadelphia, PA

- Designed an autonomic framework using computational geometry to detect unhealthy states using runtime metrics
- Designed robust general and application specific mitigations for faults and other Quality of Service violations
- Explored the effects of mitigations on faults and QoS violations with no prior knowledge of monitored system
- Developed a system to efficiently collect large amounts of runtime metrics, perform fault detection and classification, and apply appropriate mitigations in real-time

Lockheed Martin Advanced Technology Laboratories

Research Intern

September 2008 - December 2010

Cherry Hill, NJ

- Designed a dynamically configurable and schedulable testbed for analysis of heterogeneous and real-time systems
- Developed tools for automatic source-to-source transformations of code segments to run on heterogeneous architectures
- Developed a framework to support dynamic loading and hotswapping of components for heterogeneous architectures

ACIN Program for Warfighter Support

Research Engineer

September 2005 - September 2007

Camden, NJ

- Researched methods for detecting reverse engineering tools running directly on a system or in a virtualized environment
- Applied program analysis techniques to improve the correctness and robustness of a communications software system
- Evaluated the reliability, robustness, and efficiency of delay-tolerant networks on large-scale virtualized radio networks

Intel Corporation

Validation Engineer

September 2004 - March 2005

Hudson, MA

- Performed validation work on the system interface of multi-core Itanium2 and Xeon processors
- Analyzed and validated parts of the processor HDL code, simulating it's functionality in C++
- Tested and analyzed coverage for the router box of the system interface