

Kendra Garwin

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EXPERIENCE

KNEWTON, INC. | SECURITY ENGINEER

oct 2014 - present | New York, NY

Develop security policies and encourage cultural buy-in of security procedures. Architect and support security-focused tools, services, and infrastructure improvements. Specialize in the implementation of statistics-based analytical tools for network logs and security events.

STROZ FRIEDBERG, LLC | SECURITY ANALYST

aug 2013 - oct 2014 | New York, NY

Executed security reviews addressing vulnerability management, business logic, and overall cyber risk profile. Supported client engagements by applying physical and mathematical science to complex security problems.

CARNEGIE MELLON HUMAN-COMPUTER INTERACTION | DEVELOPER

may - dec 2011 | Pittsburgh, PA

Developed software and a high-quality corpus to analyze sentiment in online group interactions.

RESEARCH

RAPID PROTOTYPING OF COMPUTER SYSTEMS | DEMO MASTER

feb - may 2011 | Pittsburgh, PA

- Managed a team in the development of novel workflows, social data mining tools, and economic analysis of distributed work.
- Directed the coding of a proxy layer between a database and front end of a cloud-based collaborative system.

CARNEGIE MELLON COMPUTER SCIENCE | HEAD RESEARCH ASSISTANT

may - aug 2009 | Pittsburgh, PA

Lead a study of verification methods for hybrid systems with **Andre Platzer**, analyzing the dynamics of traffic flow and providing a protocol for collision avoidance between vehicles during lane change maneuvers.

CURRENT PROJECTS

MARKOV ANALYSIS OF FIREWALL LOGS

Developing scripts using a markov model approach to predict the probability of network traffic density on a firewall.

CLOSED CIRCUIT SURVEILLANCE OPTIMIZATION

Prototyping an application that determines the optimal layout for CCTV cameras while minimizing cost and maximizing coverage.

COMMUNITY

TUTORING | MATH TUTOR

jun - aug 2010 | Paoli, PA

Tutored college students in proof construction, probability, combinatorics, and basic analysis.

SADHANA FOREST | VOLUNTEER

jan - feb 2010 | Auroville, Tamil Nadu, India

Contributed to the ecological revival of the desiccated tropical dry evergreen forest and helped maintain sustainable infrastructure for the community.

SIBERSONG SLEDDOGS | TRAINING MUSER

aug - dec 2009 | Ashland, NH

Assisted owner in the care and training of 32 racing Siberian huskies for mid-distance sleddog races.

EDUCATION

CARNEGIE MELLON

B.S. IN MATHEMATICS

aug 2013 | Pittsburgh, PA

SKILLS

PROGRAMMING

Over 5000 lines:

Java • Python • C • Perl

Visual Basic • \LaTeX

Over 1000 lines:

C# • C++ • sML • PHP • R

Familiar:

JavaScript • MySQL • Matlab

TOOLS AND LIBRARIES

Security

Qualys, RedSeal, StealthAudit, Metasploit, Kismet

Development

Git, SVN, Eclipse

Infrastructure

Splunk, AWS, Chef, Ansible

Libraries

numpy, OpenNLP, KeYmaera

OPERATING SYSTEMS

Linux

Kali, BackTrack5, Debian, Fedora, Ubuntu

Windows XP, 7, 8

Mac OS

FOREIGN LANGUAGES

German - Working proficiency

Spanish - Elementary proficiency

INTERESTS/HOBBIES

Classical Piano • *Expert*

Mid-Distance Running • *Advanced*

Archery • *Intermediate*