

Kevin D. Lux
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Summary of Qualifications

- Proven record of excellence in teaching undergraduate computer science courses.
- Excellent data analysis, modeling and visualization skills in MySQL, Oracle, SQL Server, XML and HL7.
- Wide and deep exposure to operating systems and programming such as C, C++, VB, C#, Java, Perl, PHP and Windows, Linux and Solaris.
- Web development and administration experience under all major platforms including PHP/MySQL/Linux, ASP.net and Java.
- Exceptional ability to quickly learn new technologies and explain them to others.
- Production support of critical applications.

Education

Master of Science, Computer and Information Science, University of Pennsylvania, Philadelphia, PA
Bachelor of Arts (Cum Laude), Computer Science, Drexel University, Philadelphia, PA

Technical Expertise

Languages	Perl, C#, PHP, C, C++, Java, C, XML, Javascript, HTML, Visual Basic
Systems	Windows, Linux, vSphere, Solaris, OS X
Software	Visual Studio, SeeBeyond Suite, Visio, JBuilder, Excel, Dreamweaver, CVS, Visual Source Safe
Databases	mySQL, SQL Server, Oracle

Professional Experience

Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

Senior Programmer Analyst

2004-Present

Work as a systems integrator joining our Dell KACE helpdesk, various Penn-specific applications, billing systems, clinical systems and client-facing systems to automate common work and transform data stuck in silos into organizational knowledge. Responsible for “special projects” programming of niche applications and providing programming support for the entire operations team.

- Built POP (PMACS Operation Portal) to automate system administration tasks such as user account creation, user modification, provisioning of services, DNS, reporting, etc. using Perl resulting in up to a 95% reduction in manual work. System is completely extensible and allows for extremely rapid development.
- Support the Code 42 CrashPlan backup system and the Dell KACE ticketing system.
- Designed, built and maintain HIPAA-compliant, clinical data web applications in Java/Struts/Oracle that provide secure access to patient registries, bulk lab results and clinical studies.

Rowan University, Glassboro, NJ

Adjunct Professor of Computer Science

2012-Present

Teach programming classes to undergraduate students in the evening.

- Taught CS-01104, “Introduction to Scientific Programming”, introducing students to basic programming concepts using VB.NET and Java.

- Taught CS-01200, “Computing Environments”, introducing students to Microsoft Office and basic HTML authoring.
- Taught CS-04114 (lab only), “Object Oriented Programming / Data Abstraction”, introducing students to Java OOP concepts and GUI development.
- Taught CS-04225, “Principles of Data Structures”, introducing students to Big O notation, dynamic memory, stacks, queues, linked lists and trees using C++.

Caveon, Midvale, UT

Subject Matter Expert/Exam Item Writer

2012-Present

Authored and reviewed competency-based exam questions.

- Graduate level: cryptography, security policies
- Undergraduate level: web development, fundamentals of programming, network design and management, application infrastructure
- Microsoft certification exams: 70-680 (Configuring Windows 7), 98-365 (Windows Server Fundamentals), 98-366 (Networking Fundamentals), 98-376 (Security Fundamentals) and many others
- CompTIA certification exam: Security+ Mobile App Android
- IBM exams: Cloud Application Administrator, Cloud Application Developer

American Public University System, Charles Town, WV

Adjunct Professor of Information Systems

2014-2015

Teach online database classes to a large cross-section of students.

- Taught INFO 221, “Relational Database Concepts”, introducing students to DBMS management and usage using Microsoft Access.

Gloucester County College, Sewell, NJ

Adjunct Professor of Computer Science

2007-2013

Teach programming classes to undergraduate students in the evening.

- Taught CSC-101, “Introduction to Programming”, introducing students to basic programming concepts using VB.NET.
- Taught CIS-110, “Fundamentals of Programming”, which is quite similar to the above.
- Taught CSC-111, “Intermediate Programming”, expands on the above to include array processing, file I/O and basic object oriented programming.
- Taught CSC-201, “Programming in C”, introducing students to basic through intermediate concepts of the C programming language.
- Taught CSC-205, “Programming in C++”, expanding on the above class to use object-oriented development and focusing on designing software.
- Taught CSC-220, “Data Structures and Algorithms”, introducing students to stacks, queues, linked lists in both C and C++, along with basic algorithm analysis.
- Taught CIS-264, “[Web] Database Applications Programming”, using PHP and MySQL on Linux to build database-driven web sites. I setup and administer the server.

University of Pennsylvania, Philadelphia, PA

Research Programmer

2001-2004

Managed all lab resources to ensure security of systems, appropriate remote access, and custom network and system configurations for experiments.

- Created WSEmail (<http://wsemail.ws>) to explore an alternative to traditional email that allowed for security (X.509 signatures and federated identities), adaptability (negotiation for communication channels) and extensibility (downloadable new functionality), resulting in an IEEE publication.