

Darian Anthony Patrick

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Experience

Senior Programmer Analyst, Application Security

August 2007 – Present

University of Pennsylvania., Philadelphia, PA

- Deployed and managed University-wide XMPP-based IM system based on Openfire
- Performed security assessments of Java and PHP-based web applications
- Participated in engineering working group replacing proprietary university-wide web authentication system with CoSign
- Implemented telephone system feature scheduling in web-based management application for SER and Asterisk-based VoIP telephone system, developed in-house to replace aging university phone system

Computer Consultant, University of Pennsylvania

March 2007 – August 2007

The Brokers Group, Inc., Princeton, NJ

David Kitchen <dkitchen@thebrokersgrp.com>

- Conducted web application security assessments, made recommendations for remediation of discovered vulnerabilities, and verified successful application of recommendations
- Conducted PHP application version migration reviews
- Implemented extensions to Openfire IM Server to support Kerberos password authentication
- Developed PEAR package providing authentication against proprietary web authentication system

Principal, Application Development

September 2005 – Present

Criticode LLC, Philadelphia, PA

Innovation Teaching, Inc.

Steven Francisco <steven@innovationteaching.com>

Skyline Security Consulting, LLC, Trenton, NJ

Jamell Creque <jcreque@skylinesecurity.net>

LinuxForce Inc., Upper Darby, PA

CJ Fearnley <cjf@linuxforce.net>

- Created e-commerce, information security, customer relationship management, and marketing communications applications for the publishing, financial, and media arts sectors, using PHP (CakePHP, Moodle, Joomla), Perl (Catalyst, Class::DBI), MySQL, and Apache
- Created web portal aggregating information security sensor data for real-time viewing of network and system availability and security posture, as well as policy violation attempts and successes
- Conducted web application security assessments, made recommendations for remediation of discovered vulnerabilities, and verified successful application of recommendations
- Conducted PHP application version migration reviews
- Diagnosed and corrected system-level defects in financial sector enterprise support systems
- Implemented web-based registration order confirmation system utilizing S/MIME for encrypted e-mail communications
- Developed data-intensive web portal containing community news, events, and commerce information for every zip code in the US
- Developed Voice over IP communications platform based on Asterisk PBX, integrating physical SIP instruments, IAX analog telephone adapters, as well as software phones, and using analog and IP trunks
- Implemented academic history tracking/transcript functionality for Philadelphia School of Psychoanalysis as Moodle extension

Director of Information Technology

March 2005 – September 2005

Solutions For Progress, Inc., Philadelphia, PA

Robert Brand <rbrand@solutionsforprogress.com>

- Supervised team consisting of user support, and system administration staff, tasked with supporting 80+ on and off site users
- Worked with architects and engineers to define and install necessary IT infrastructure during construction of new office space
- Created budget, organized vendors and subcontractors, and guided system administration staff in deployment and integration of IT infrastructure in newly constructed office space
- Led vendor evaluation and selection efforts for acquisition of office systems, including Voice over IP phone system (Cisco Call Manager-based)
- Reorganized IT department to more efficiently accomplish short and long-term system administration and technical support goals
- Designed and scripted (using Perl) e-mail and internal instant messaging systems
- Performed various system administration and user support duties as needed

Software Developer, Technical Lead

March 2004 – March 2005

The Benefit Bank, Philadelphia, PA

Alec Wood <awood@thebenefitbank.com>

- Lead team of seven software developers in architecture, redesign, and implementation of software components, programmed in Perl, for utilization in web application providing access to federal, state, and local benefits, as well as federal and state tax filing, for low-income and disadvantaged people
- Scripted custom application developer working environment, and supporting developer tool set, using Perl and standard XML processing tools, facilitating efficient application source code development, compilation, and testing in the Unix environment
- Recommended and implemented office-wide network infrastructure improvements, in support of development activities

Technology Director

September 2003 – March 2004

Experience	
Empowerment Group, Philadelphia, PA	Sylvie Gallier <sgallier@empowerment-group.org>
<ul style="list-style-type: none"> ■ Maximized IT investment value through efficient utilization and creative redeployment of existing technology ■ Redesigned local area network, providing consistent network service to wired and unwired users ■ Created and enforced security and safety policy for network-connected Windows XP computers ■ Designed and scripted, using Perl, virtual private networking solution using readily available free software and native Microsoft Windows IP security tools 	
Internet Application Developer, Network Consultant	September 2001 – March 2004
Double Prime, Inc., Philadelphia, PA Config.com, Inc., Ravenna, OH Trendesign, LLC., Akron, OH EYEMG, Interactive Media Group, Akron, OH	Joe Rinehart <joe@config.com> Andrew Holland <andrewholland@eyemg.com>
<ul style="list-style-type: none"> ■ Created e-commerce, supply chain management, e-mail marketing, content management, human resources, and professional services applications (mostly in Perl) for a broad base of commercial end-users including Aveda/Estee Lauder, Chuck E. Cheese, AB Dick, Nordson, Roadway Reverse Logistics, Davey Tree, Penton Media, Advanced Elastomer Systems (ExxonMobil), and others ■ Developed web-based applications in the Unix environment using Perl [All] and PHP, Flash with ActionScript, Javascript, XML, (X)HTML, with MySQL and/or Oracle [Double Prime] for data storage, running on Linux, Mac OS X, Irix, and Solaris ■ Audited existing Perl applications to determine their feasibility for extension and reuse in other business areas [EYEMG, Trendesign, Config.com] ■ Provided network and system administration services, including advanced e-mail system configuration, bastion host security auditing, gateway firewall ruleset definition, and router configuration 	
Skills	
<p>Administrative: Budgeting, IT policy definition, requirements definition, vendor evaluation, application architecture, capacity planning, web vulnerability assessment, threat modeling, risk assessment</p> <p>E-commerce: Authorize.Net, NPC VirtualPay, ClearCommerce API, PayPal</p> <p>Software Architecture & Development: UML, object-oriented programming, version control (CVS, SVN)</p> <p>Enterprise Architecture & Business Intelligence: Service-Oriented Architecture (SOAP, XML-RPC, WS-*), BIRT</p> <p>Programming & Language Technologies: Perl, PHP, JavaScript, Java, C, Python, JSR-223, PHP-Java Bridge, XML (XSL, XPath, XInclude, etc.), Eclipse, Komodo, Zend Studio, Trac, Bugzilla</p> <p>Application Development Frameworks: CakePHP, Grails, Catalyst, CGI::Application</p> <p>Database Management Systems & Data Access Technologies: MySQL, PostgreSQL, MS SQL, MS Access, SQLite, JDBC, Perl DBI, MDB2, PDO</p> <p>Operating Systems: Linux, Solaris 10/OpenSolaris, OpenBSD, NetBSD, MS Windows 2000/XP/2003 Server, Mac OS X</p> <p>Web Technologies: Apache, lighttpd, mod_perl, LAMP, CGI, JSP, Tomcat</p> <p>Networking: DNS, BIND, SMTP, POP3, IMAP, Jabber, IPSEC/VPN, NAT, 802.3, 802.11, T1</p> <p>Telecom: Asterisk PBX, FreePBX, SIP, IAX, Linksys SPA-XXX series, SIP NAT traversal, AGI scripting, SJphone, Ekiga</p> <p>Security: Kerberos, TLS/SSL, PGP/GPG, S/MIME, OpenVPN, Nortel Contivity, WebScarab, WebInspect, nikto, mod_security, Nagios</p>	
Certifications	
<p>Language</p> <ul style="list-style-type: none"> ○ ZCE, Zend Certified Engineer PHP 4, March 28, 2007 / ClientCandidateID #ZEND005141 / Registration #219662349 PHP 5, June 17, 2008 / ClientCandidateID #ZEND005141 / Registration #225801055 ○ SCJP, Sun Certified Java Programmer June 2008 / (PLANNED) <p>Software Security / Web Application Security</p> <ul style="list-style-type: none"> ○ GWAS, GIAC Web Application Security May 19, 2007 / Analyst #0351 ○ GSSP-JAVA, GIAC Certified Secure Software Programmer – Java August 31, 2007 / Exam Result ID 58813478538 	
Education & Training	
<ul style="list-style-type: none"> ● English & Computer Science ● SEC-519 	<p>University of Akron & Kent State University, 1998 – 2002</p> <p>Web Application Security Workshop SANS Institute, May 2007</p>
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Education & Training

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| ● SEC-505 | Securing Windows | SANS Institute, June 2007 |
| ● SEC-616 | Defensible .NET | SANS Institute, July 2007 |
| ● SEC-528 | Java Security Auditing | SANS Institute, August 2007 |
| ● SEC-538 | Web App. Pen. Testing Fundamentals | SANS Institute, June 2008 |

Affiliations

Open Web Application Security Project,
Chapter Leader – Philadelphia

Facilitator, SANS Institute

Philadelphia Linux User Group,
Member

SAGE, the System Administrators Guild
USENIX, the Advanced Computing Systems Association
Member