

Darian Anthony Patrick

- Highly competent in Perl, Python, and PHP web application development
- Thirteen years of web programming experience
- Twelve years of Linux system administration experience, specializing in supporting and optimizing web application hosting
- Five years of web application security practice
- Led team of seven Perl programmers to successful launch of tax filing software (federal and state)

Core Competencies

- Web Application Development
- Web Application Security
- Penetration Testing
- Network Application Development
- IdM Configuration & Management
- System Administration

Experience

Vocational

- Sept. 2005– Present **Principal, Application Development**, *Criticode LLC*, Philadelphia, PA.
- Aug. 2007– Sept. 2011 **Senior Programmer Analyst, Application Security**, *University of Pennsylvania*, Philadelphia, PA.
- Mar. 2007– Aug. 2007 **Consultant, University of Pennsylvania**, *The Brokers Group, Inc.*, Princeton, NJ.
- Mar. 2005– Sept. 2005 **Director of Information Technology**, *Solutions for Progress, Inc.*, Philadelphia, PA.
- Feb. 2004– Mar. 2005 **Software Developer (Technical Lead)**, *The Benefit Bank, Solutions for Progress, Inc.*, Philadelphia, PA.

Teaching

- January 2012– Present **BPC Mentor**, *U. Penn Netter Ctr. for Comm. Partnerships*, Philadelphia, PA.
 - Introduced high school students to software development using MIT Scratch and App Inventor for Google Android app development;
 - Formulated and delivered lesson plans and created test applications for debugging
- 2000-2001 **Teaching/Lab Assistant**, *School of Technology, Kent State University*, Kent, OH.
 - Assisted in development and presentation of courses taught in the lab of Dr. Khin M. Yin;
 - Subjects included Java programming and Windows and Linux server administration, networking, and security;
 - Built and configured lab network infrastructure, including custom Linux-based firewalls and Cisco managed switches

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- ✉ darian@criticode.com • 🌐 <http://criticode.com> • *Code samples available at <http://github.com/dap/samples>*

Technical Skills

Programming Languages	C, C++, Java, JavaScript, OCaml, PHP, Perl, Python (CPython, Jython)	Development Frameworks & Libraries	CakePHP, Catalyst, Django, ExtJS, Grails, JEE, JSTL, jQuery, Mojolicious, Spring, Struts, Titanium/CGI::Application
Data Storage Systems	CouchDB, Memcached, MS SQL Server, MySQL, PostgreSQL, Redis, SQLite	Search Technologies	ElasticSearch, Apache Lucy (KinnoSearch), Lucene, Solr
Data Analysis & Reporting	BIRT, Hadoop, R, MapReduce	Web Technologies	Apache, Jetty, lighttpd, mod_perl, nginx, PHP-Java Bridge, PSGI, Plack, Tomcat, WSGI
IdM Applications	CoSign, MIT Kerberos 5, OpenLDAP, Shibboleth	AppSec Tools	JBroFuzz, mod_security, HP WebInspect, WebScarab
System Management	Circonus, Nagios, Puppet, Resmon	Operating Systems	Linux, Mac OS X, MS Windows 2003 & 2008 Server, NetBSD, OpenBSD, OpenSolaris, Solaris 10
Cloud Services	Amazon AWS, dotCloud, Google App Engine, Rackspace Cloud, rsync.net		

Language Competency

English	Native speaker
French	Advanced

Certifications

Programming Languages

June 17, 2008	ZCE, Zend Certified Engineer, PHP 5 , <i>Zend Technologies Ltd.</i> , Philadelphia, PA. ClientCandidateID #ZEND005141, Registration #225801055
March 28, 2007	ZCE, Zend Certified Engineer, PHP 4 , <i>Zend Technologies Ltd.</i> , Philadelphia, PA. ClientCandidateID #ZEND005141, Registration #219662349

Software Security/Web Application Security

August 31, 2007	GSSP-JAVA, GIAC Certified Secure Software Programmer – Java , <i>GIAC</i> , Washington, D.C.. Exam Result ID 58813478538
May 19, 2007	GWAS, GIAC Web Application Security , <i>GIAC</i> , Philadelphia, PA. Analyst #0351

Education

2009–Present	B.A., Cognitive Science , <i>University of Pennsylvania</i> , Philadelphia, PA, <i>In Progress</i> . Concentration in Cognitive Neuroscience, with coursework in Computer Science and Statistics
August 2010	Intro to Reversing , <i>Hive76</i> , Philadelphia, PA. Ben Agre, Instructor

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- June 2009 **Better Programming Through Testing**, *YAPC10*, Pittsburgh, PA.
Michael Schwern, Instructor
- June 2008 **SEC-538 Web App. Pen. Testing Fundamentals**, *SANS Inst.*, Philadelphia, PA.
Johannes Ulrich, Ph.D, Instructor
- August 2007 **SEC-528 Java Security Auditing**, *SANS Inst.*, Washington, D.C.
Tanya Baccam, Instructor
- July 2007 **SEC-616 Defensible .NET**, *SANS Inst.*, Washington, D.C.
David Rice, Instructor
- June 2007 **SEC-505 Securing Windows**, *SANS Inst.*, Philadelphia, PA.
Jason Fossen, Instructor
- May 2007 **SEC-519 Web Application Security Workshop**, *SANS Inst.*, Philadelphia, PA.
Kevin Johnson, Instructor

Presentations

- June 2011 **Perl for AppSec**, *OWASP Philadelphia*, U. Penn, Philadelphia, PA.
Reviewed modules and techniques useful in applying Perl to application security challenges
- July 2008 **openfire-stats-poller**, *XMPP Summit #5*, OSCON 2008, Portland, OR.
Discussed creation and use of Java-based tool for administration of XMPP Servers
- June 2008 **The OWASP Top Ten**, *UICongf*, Wharton School, U. Penn, Philadelphia, PA.
Discussed the top ten web application security issues of 2007

Open Source Project Contributions

Current

- RentChaser.net (back-end and API development, data wrangling, system administration)
- Histogramy.org (front-end development, data wrangling, system administration)
- Net::XMPP (current maintainer)
- Pod::Coverage::Method::Signatures (original author)

Past

- CakePHP (bug fixes)
- CoSign (bug fixes)
- Openfire (bug fixes)
- Padre (basic syntax highlighting for Moose and Method::Signatures)
- perl5i (C-based perl5i command line tool)
- Zimbra (Kerberos authentication improvement)

Affiliations

- Module Author/Maintainer, CPAN, Comprehensive Perl Archive Network
- Co-Organizer, Phl.pm, Philadelphia Perl Mongers
- Co-Chapter Leader – Philadelphia, OWASP, Open Web Application Security Project
- Member, FSF, Free Software Foundation

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