


Fotios Basagiannis – Resume/CV – November 2011

PERSONAL SUMMARY		
	First Name	Fotios
	Last Name	Basagiannis
	e-mail	f_bass@yahoo.com
	Telephone	+30 69 06 270 988 (Skype: fotiosb)
	Nationality	Greek
	Date of birth	17 March 1970
	Family Status	Married to Joselita Dos Santos Cardoso No children
	Education	Cum Laude BSc and MSc in Computer Science
	Experience	10 years
	Present Location	Athens, Greece
Willing to relocate	Yes	
Interested in	Software Engineering, Internet Applications, IT Security	
Linkedin Profile	http://www.linkedin.com/in/fotios	
Methodologies, Processes, Frameworks, Standards	BS7799/ISO27001-2, Common Criteria, ebXML, XDI, EDXL, CAP, CVE, NVD, OVAL, XCCDF, (Rational) Unified Process, Information Engineering, OCTAVE, Spiral model, various prototyping processes, Federal Enterprise Architecture, Metadata Registries (MDR/ISO11179)	
Programming	C, C++, Java, JavaScript, Visual Basic and VBScript, ActionScript, CORBA, SOA/SOAP, AJAX, UML/SysML, Sockets, Multithreading, CryptoAPI, Crypto++, PKCS11, ADO/OLEDB, MFC, COM/DCOM/COM+/ActiveX, ASP, PHP, SWIG, CGI, HTML/XML/XSL/XPath/DOM, SQL, LOTOS	
Environments, Platforms & Tools	Linux/Unix, Windows, Apache, IIS, Zope, Rational Rose/Visual Paradigm, MySQL/PostgreSQL/SQL server, CVS/VSS/SVN, Eclipse, Visual Studio, Flash, Eracom and nCipher HSMs	
Security Tools	eEye Retina, Nessus, Windows Sysinternals, Nmap, Ethereal, netstat and tcpdump	

LANGUAGES										
Mother Tongue: Greek										
	European Level (*)									
Other Languages	Listening		Reading		Speaking				Writing	
					Spoken Interaction		Spoken Production			
English	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User
Italian	B2	Independent User	B2	Independent User	B2	Independent User	B1	Independent User	B1	Independent User
Portuguese	B1	Independent User	B2	Independent User	B1	Independent User	A2	Basic User	A2	Basic User

(*) Common European Framework of Reference (CEF) level. See [here](#).

EDUCATION

- Cum Laude BSc in Computer Science, 1998, American University of Athens
- MSc in Computer Science, 2000 Heriot-Watt University, Edinburgh, UK

EXPERIENCE

Dates	October 2011 – December 2011
Employer	Self-Employed
Sector	IT Security
Position Held	eLance Contractor
Main Activities and Responsibilities	
<ul style="list-style-type: none"> I am currently in the final stages of developing a web application for steganography based JPEG image DRM (Digital Rights Management) for a private US based customer. System will be delivered by the end of December 2011. The application is developed in C on Linux and wrapped into a PHP accessible module using SWIG. It embeds both a customizable size, density and luminance visible watermark as well as a hidden and persistent custom steganographic message that is encoded in the chrominance channels of the JPEG image. The steganographic message currently survives resizing and cropping attacks on the image at percentages of the original that go as low as 30-40%. It also survives recompressing at JPEG quality settings that can be as low depending on concomitant factors like resizing/scaling and cropping. The application produces results that are comparable to those by Digimarc's similar solution: http://www.digimarc.com/docs/digimarc-for-images-resources/dfi-chroma-technical-brief.pdf 	

Dates	December 2009 – October 2011
Employer	Self-Employed
Sector	Physical and IT Security related consumer services
Position Held	Entrepreneur
Main Activities and Responsibilities	
<ul style="list-style-type: none"> Conceived and developed a number of ideas relating to security related consumer services in Brazil. The ideas capitalize on providing services that protect consumers from petty crime in their everyday life. Conceived, developed, designed and patented a number of systems that can provide these services. After considerable entrepreneurial effort I have planned and fully funded incubation of Domino Enterprises in Brazil (http://domino.bz/). Domino Enterprises will be the legal entity that manages deployment of the aforementioned novel services during 2012-2013. Thoroughly researched related state of the art and fully specified user and technical requirements for the pilot systems that are to be constructed in China sometime in 2012. 	

Dates	November 2003 – November 2009
Employer	Joint Research Centre, European Commission (http://www.jrc.it/) Ispira, VA, Italy
Sector	Cybersecurity, Security of Critical Networked Infrastructures Government
Position Held	Researcher, Systems Architect
Main Activities and Responsibilities	
<ul style="list-style-type: none"> (2007 – 2009) System architect and lead developer for the SecNet-IE project. Designing and implementing SecNet-IE, a proof of concept platform for the secure exchange of Critical Infrastructure Protection information (vulnerabilities, threats, etc.) among public and private sector stakeholders. SecNet-IE is based on an eclectic set of relevant standards and technologies like: ISO 11179 (MDR), FEA, NIEM, ebXML, X.500, X.509, SCAP. It will take the form of a Linux based P2P network of trusted agents that enforce the Traffic Light Protocol (TLP) while affording very secure communications. UML/SysML are used for modelling while a hybrid UP-based process controls the SDLC. Link: http://bit.ly/LRod4 Link: http://bit.ly/uIOcOE (2006) System architect and lead developer for the MEDI project. MEDI stands for "Monitoring of the European Defence Industry" and its IT part took the form of a secure 3-tier application with SQL Server 2005 in the backend. My work included database schema design, stored procedure coding, xml schema (for hierarchical data), Excel template VBA development and middleware design and implementation. Data arrives from partners in Excel spreadsheet format, based on a smart, xml driven, custom Excel template, and is then analysed and imported into the DB by a number of VBA scripts and a .NET C# application. The contents of the DB are then securely browsed over TLS by authenticated users. Link: http://bit.ly/1e7dEW 	

- **(2005) Analyst, designer, developer for the PIPS project.** I took part in PIPS's security platform activity. I produced several secure architecture proposals, influenced its overall architecture, designed and implemented an experts driven system for ascribing trust attributes (HIDDEL based) to web sources and led the effort of a software tool aided CERT OCTAVE based risk analysis and security evaluation exercise on the existing prototype and proposed organisational structure around it. The full breadth of the OCTAVE method was utilised and detailed OCTAVE compliant reports produced.
Link: <http://bit.ly/trIB4U>
- **(2004) Lead designer and developer for the European Root Certification Authority (ERCA) of the Digital Tachograph System.** ERCA is a complete Root Certification Authority implementation that produces digital certificates for European member states, complies with European and International standards and has successfully passed a thorough auditing process by external bodies and authorities. It was developed on a custom hardened version of Linux RedHat 9.0 around a Hardware Security Module (HSM) using C++, crypto++ and PKCS11. The integrity of the software is tested on a regular basis using a tripwire setup, while the system resides in a room with strong physical security and is operated by n-of-m shared key custodians, based on a variety of software and procedural/social controls. Shared key custodians, smart cards and Tripwire integrity checking add to ERCA's strong security profile. All major operations of the CA are ACID, with the transactions including media (e.g. CD burning) I/O sub-operations.
Link: <http://dte.jrc.it/erca.html>
- **(2003-2004) Designed and implemented the web based graphical user interface for the EEJNet system.** EEJNet was implemented on Zope/Python and the GUI used Zope Page Templates (ZPT). Other extensively used technologies were HTML, XML and JavaScript. In 2005 EEJ-Net merged with other systems to become ECC-Net.
Link1: http://ec.europa.eu/consumers/publications/factsheet-ECC-Net_en.pdf
Link2: http://ec.europa.eu/consumers/redress_cons/index_en.htm

Dates	March 2002 – July 2003
Employer	NKD Webmedia (http://www.nkd-webmedia.co.uk/) Edinburgh, Scotland, UK
Sector	Web Development Private
Position Held	Senior Developer, Network Administrator
Main Activities and Responsibilities	
<ul style="list-style-type: none"> • (2003) Front end developer for the Soq system. A through-the-browser application built in JavaScript and utilizing various web related technologies like DOM, XML and SOAP, the Soq™ System enables users to create and manage all their online content regardless of where it is stored. The Soq system's front end makes use of original solutions and innovative JavaScript coding to implement its functionality. After finishing work on Soq I put together a document giving a high level description of my vision for its successor, SWEEP. Link: http://fotios.org/files/SWEEP02.pdf • (2003) Lead designer and developer in the Angus CPD project for the Scottish government. Led a team of four developers in the Angus CPD project whose aim was the development of an online support and management system for the Continuous Professional Development of over 2000 teaching and other key staff throughout the Angus council area. The Angus CPD system is three-tiered and based on the windows platform using SQL server 2000, COM+, ASP, VB and ADO. During my involvement in the project I led the process of specification and design of the database schema, designed and developed the middleware using COM+, ADO and VB6, designed and did an initial basic implementation of the administrative desktop application and provided guidance and expertise for other parts of the system as well as its overall development. Angus CPD Online has attracted national (UK) interest, has featured as a case study in a national CPD coordinators' briefing paper and has been demonstrated at a national Conference for ICT and School Management. Link1: https://cpd.angus.gov.uk/ Link2: http://www.angus.gov.uk/ccmeetings/reports-committee2004/education/1108.pdf • (2002-2003) Developed multiple high quality Macromedia flash 5 and 6 components for internal reuse in various web projects. Examples are a "timeline controller" component that discovers multiple cascaded timelines (clips) using a recursive algorithm and drives them using a video controller metaphor (it was used by the Bank of Scotland in a promotional video CD), as well as the "picture pulsar" component (see link below) that provides for easy creation of animated online picture albums. I have also released a couple of my Flash components, as free software, to the community; they have been very popular. Link 1: http://fotios.org/node/1052 Link 2: http://bit.ly/4zTqIt 	

- **(2002-2003) Network administrator.** During this time I designed, set up, administered and maintained a Windows 2000 based network that featured an enterprise level firewall (ISA), VPN access and windows domains with integrated Microsoft Exchange functionality. The network also featured a fully set up DNS server used for ns lookups and for supporting the active directory infrastructure.

Dates	October 2000 – February 2002
Employer	Self Employed Glasgow, Scotland, UK
Sector	Private
Position Held	Freelance Developer
Main Activities	
<ul style="list-style-type: none"> • (2002) Developed a Google like toolbar and a set of binary behaviours for Internet Explorer in ATL/VC++. The toolbar and binary behaviours were implemented as ActiveX components that run as in-process COM servers to the IE process. Some features of the components are exported interfaces for in-page script access, custom events fired by the binary behaviours as well as customization of Internet Explorer's OLE capabilities and manipulation of the windows clipboard. • (2002) I developed a three-tier web based demonstration system that can be used for the creation, management and execution of online polls. The system is based on an elaborate database schema and is implemented using Microsoft SQL server, ADO, COM+, IIS, Visual Basic, VBScript and JavaScript. Please ask for a demo. • (2001) Developed a system for creating block diagrams online for Hynomics Corp. now ClearSight Systems (Seattle, WA). The system comprised an Adobe Flash based front end, and an ASP/XML backend. • (2001) Was one of the contributors in the Flash MX book "Using Macromedia Flash MX (Special Edition)" by Que Publishing. Link: http://www.informit.com/store/product.aspx?isbn=0789727625 • (2001-2002) Was a very active member of the international flash developer community, developing innovative proofs of concept and extending the perceived breadth of applications for the Flash platform. Link: http://fotios.org/node/1052 • (2001-2002) Developed multiple freeware desktop applications for the Windows platform and wrote online tutorials regarding their implementation. Link 1: http://fotios.org/node/1180 Link 2: http://www.codeproject.com/KB/dialog/select_all_button.aspx 	

PERSONAL PROJECTS

(2007) Developing WeirdRen, a simple, fast and powerful batch file renaming desktop application for the windows platform. WeirdRen will not simply do selective batch file renaming/deleting: it will allow you to specify file name patterns using both filename masks and the power of regular expressions. On top of that, it will use a specially designed regular language for the specification of the name replacement (repex: REplacement EXpression).

Link: <http://fotios.org/node/1183>

(2003) Developed a secure P2P private messaging system using MFC, C++, Winsock, CryptoAPI and low level win32 APIs (currently in working alpha status). "Secret Love" is a temporary and tentatively humorous name for the Alpha 1 version of a "peer-to-peer chat" type of desktop application for win32 boxes that utilizes strong encryption to secure exchanged messages.

Link : <http://fotios.org/node/1185>

(2001) Developed the first (and probably only) Macromedia Flash client that does binary processing (without using the binary operators that were introduced in Flash later on) with the ASP back-end merely saving the already processed byte stream in the file system. The system creates bmp files out of what the user paints in the web based canvas.

Link: <http://fotios.org/node/1053>

ORGANIZATIONAL SKILLS AND COMPETENCES

- Effective in identifying the essential attributes of problems and creating realistic plans of action.
- Self-motivation and challenge driven attitude that animates teams.
- Led small software development teams in successful projects in the public and private sector.
- Very strong oral and written communication skills in English.

SOCIAL SKILLS AND COMPETENCES

- Experience in multi-cultural environments. Lived and worked in the US, UK, Italy and Greece. My wife is Brazilian.
- Worked in multi-cultural multi-national teams, inside and outside the European Commission environment, while employed at DG JRC.
- Easy-going, volunteering, supportive attitude.
- Strong sense of moral and social responsibility.

HOBBIES

- Writing poetry. Link: <http://fotios.org/node/968>
- Shooting hoops
- Shooting pool