Marios Isaakidis

Curriculum Vitae

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Work Experience

05/14–08/14 **Google Summer of Code Student**,
FREENET.ORG, GOOGLE.
- Improving the web interface of freenet (UI/UX).
- Decoupling the web interface (presentation) from the logic tier.

05/13–Now **Researcher, Community Manager**,
CYPRUS SPACE EXPLORATION ORGANIZATION (CSEO), Cyprus.
- Member of *StratoCY* stratosphere balloon platform project (requirement analysis, co-writing specifications and Interface control documents, module integration)
- Event lead at *Space Apps Challenge Limassol 2013* and *Space Apps Nicosia 2014*

08/13–12/13 **Lead Engineer – Scrum Master**, FUNIFI, Copenhagen, Denmark.
- Leading the technical team and undertaking the software design
- Participating in Startup Bootcamp Mobility XL acceleration program
- Developing using Lean Startup methodology, A/B testing and Scrum

06/12–09/12 **Android Developer – Quality Assurance**, INFOSCREEN LTD., Cyprus.
- Porting *Quorum*, a C# application, to the Android platform (asynchronous connection, cryptography, XML creation and parsing, multithreading, Android APIs)
- Writing unit and functional tests in C# and C++
- Working with source revision control systems and Scrum agile development methods

06/12–09/12 **Research Intern**, CYPRUS INTERACTION LAB, Cyprus.
- Researching on topic *"Computer-supported Collaborative Learning: Interactive surfaces and multitouch tabletops"*
- Adding multimedia support to *Ideas Mapping*, a multitouch application for ideas mapping and brainstorming

02/10–05/10 **Volunteer Instructor at "Introduction to Programming and the C Programming Language"**, CYPRUS UNIVERSITY OF TECHNOLOGY, Cyprus.
- Organizing the seminars
- Preparing the educational material and lab exercises
- Tutoring and evaluating the projects

10/09–12/11 **Librarian, Technical Support**, CYPRUS UNIVERSITY OF TECHNOLOGY LIBRARY AND INFORMATION SYSTEMS, Limassol, Cyprus.

Education

6/13–9/13 **Software Defined Networking**, *Georgia Institute of Technology (completed via coursera.org).*
- In-depth presentation of SDN concepts and use cases
- Experimentation with Mininet, various topologies and SDN controllers

2009–2014 **Electrical Engineering, Computer Engineering and Information Technology**, *Cyprus University of Technology*, *GPA – 7.8.*
- Scholarship of Excellence
- Successfully completed all courses, except from the final thesis project

Final Thesis

Title *Service-Aware Networking* – Service-Centric Architectures and the SDN Paradigm

Supervisor Dr. Sirivianos Michael

Description In service-centric architectures services become first class citizens. SDN could benefit from the provided abstractions and enable services running in, possibly distributed, datacenters to automatically, and according to the rights they have been given, manipulate virtual networks to better utilize the network infrastructure, conforming to their dynamic needs.

Areas of Interest

- Large scale network architectures
- Next generation Service-Centric architectures
- Software Defined Networking (SDN)
- Cloud computing
- Distributed systems
- P2P DNS alternatives
- Web neutrality, freedom and anonymity

Languages

English	**Fluent - C2**	*Michigan – Certificate of Proficiency in English (ECPE)*
Greek	**Mothertongue**	
Spanish	**Advanced - B2**	*Universidad Politécnica de Madrid*
German	**Intermediate - B1**	*Goethe Institute – Zertifikat Deutsch (ZD)*
French	**Basic - A1**	

Computer skills

Programming

Advanced	C, Java and Android SDK, SQL, C# (XNA, LINQ, lambda expressions)
Basic	C++, Python, Bash scripting, Ruby, Ruby on Rails, GNU build system, Matlab, ActionScript 3.0 and Flash, SPARC Assembly
Web	HTML5, CSS3, PHP, Javascript, AJAX, jQuery, XML, JSON

Others

Familiarity with OpenFlow and Software Defined Networking, next-generation Service-Centric network architectures, Cloud computing (OpenStack, Synnefo and CloudStack), network protocols and CISCO routers configuration

Experience with programing Linux kernel modules relating to the TCP/IP stack

System Administration (Linux LPI 101 Certificate)

Solid background on object-oriented architecture, data structures, event-driven programming, software design and analysis

Acquaintance with programming for portable devices

Experience with Electronics, EDAs and microcontroller programming

Open Source Activities

Co-Founding #hack66 *hack66.info*, hackerspace and innovation center.

Mozilla Representative.

Fedora Ambassador.

seedbombing | #sporovomva, experimental, collaborative radio show at cut-radio and MYCyRadio on topics around the Open Culture.

SuperscaM, simulator of a Superscalar CPU.

6thCens, crowdsourced visualization platform of government surveillance.

Droplet, household water consumption measurement with Arduino Yun.

Translating FOSS projects to Greek, *(Ubuntu, MeTV, Firefox...)*.

Organizing and volunteering to relative events, *(FOSDEM, Cyprus Free Software Conference, Campus Party Milenio, hack4yourrights etc.)*.

Reviewing "Cyprus Access to Information Law".

Helping other users and developers, *through IRC and mailing lists.*

Member of the Digital Liberation Network, ΕΛΛΑΚ and UbuntuCY.

Projects in progress

ECG HeartBee, 3-lead Electrocardiograph based on Arduino and costing no more than 50Euro.

Translating to Greek "Free Culture", written by Lawrence Lessig.