Giorgos E Papadakis

Personal Information

- Date of Birth: *16th December 1989*
- City of Birth: *Heraklion, Greece*
- Citizenship: *Greek*
- Gender: *Male*

Research Interests

- Cloud Computing
- Big Data Analytics
- Storage Systems
- Parallel Computing
- Embedded Computing
- Operating Systems

Education

2012–2014 **M.Sc.**, *Computer Science Department*, UoCrete.
Successfully completed full Courses of the Graduate Programme.
Successfully completed Teaching Assistant duties of the Graduate Programme.
Granted two years Graduate Fellowship.

2008–2012 **B.Sc.**, *Computer Science Department*, UoCrete, **GPA*: Excellent – top 2%***.
Thesis: *Design, Implementation and Evaluation of a Software Transactional Memory System Library.* Prof. Panagiota Fatourou

Professional Experience

November 2019– present **Senior Software Engineer**, Softcom-int.
- Contract with Top-5 Automotive Manufacturer.
- Implementation of multiple features and integration with the automotive Operating System.
- Design and Implementation of an Embedded Library for Navigation.
- Code Maintenance and Solutions Support of Map Compilation automotive project.
- Code Proving and Code Verification for large automotive projects.

December 2018– November 2019 **Software Engineer**, TOM SAWYER SOFTWARE.
"Large Graph Analytics and Data Visualization."

November 2012– November 2019	**Freelance Developer**, REMOTE.
	○ Development and Porting of various complex computer systems.
	○ Involved with development (using Java Enterprise and the Spring Platform) and maintenance of a microloan provisioning platform in the Fintech Industry.
	○ Software Validation and Verification, Regression testing, Coverage testing and Static code Analysis.
	○ Code Maintenance and Solutions support of a Compute Cluster over Cloud using Openstack.
	○ Energy efficiency and server virtualization in a Data Center. Integrated KVM and Libvirt drivers.
June 2017– December 2018	**Research and Development Engineer**, CARV, ICS-FORTH, Heraklion, Crete, Greece.
	○ Implementation and Evaluation of a multi-host orchestration tool over Cloud.
	○ Evaluation of the performance of Arm/Xilinix boards using custom tool implemented in Python and Bash.
	○ Writing and Reviewing Project Deliverables.
February 2016– February 2017	**Graduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece. "Fine-grained Evaluation of Virtio Network and Storage Drivers over KVM Virtual Machines."
January 2013– November 2015	**Graduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece. "Design and Implementation of an Efficient Key-Value store for Persistent Storage."
April 2014– June 2014	**Teaching Assistant**, UNIVERSITY OF CRETE, Heraklion, Crete, Greece. Teaching Computer Architecture Course for Undergraduate students of UoC with special needs.
February 2012– November 2012	**Intern**, UNIVERSITY OF CRETE, Heraklion, Crete, Greece. Evaluation Study for Software used in Schools.
January 2011– November 2012	**Undergraduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece. "Design and Implementation of a Software Transactional Memory System."

Publications

2013	Giorgos E. Papadakis and Angelos Bilas. *Design and Implementation of an Efficient key-value store over Non-Volatile Memories*, ACACES 2013
2012	Giorgos E. Papadakis, Eleftherios Kosmas, Mykhailo Iaremko and Panagiota Fatourou. *Reducing contention in STM*, WTTM 2012

Technical Skills

Programming Languages	C, C++, PYTHON, Java, Bash, Assembly (MIPS, Risc V, x86).

Cloud & Virtualization	QEMU, KVM, Openstack,Kubernetes, Docker.
Debugging Tools	GCC, GDB, Polyspace CodeProver,Polyspace BugFinder, MISRA C/C++, Google Coverage Tests, Valgrind, Cachegrind, Coverity.
Versioning Control Systems	Git, SVN, MKS.
Miscellaneous	LATEX, Gnuplot, MATLAB, Inkscape, Tmux, Eclipse, Vim, GNU Make, CMake, Visual Studio.
Operating Systems and tools	Redimine, Confluence, Jira, Linux, Android OS, Computer Hardware and Support, AutoSAR.

Honors - Awards

2015	Monades Aristeias attendance, UCNET, University of Crete
2014	University of Crete Scholarship, September 2014 - November 2014
2014	University of Crete Scholarship, April 2014 - June 2014
2014	MUMIA, Summer School, FORTH-ICS, FULL registration Grant
2014	FIA, Megaron Athens, International Conference Center, FULL registration Grant
2013	University of Crete Scholarship, April 2013 - June 2013
2013-2015	ICS-FORTH - Graduate Fellowship
2013	HiPEAC Summer school attendance Grant
2012	**Ranked in top 2%** of the Computer Science Department UoCrete (**2000** students overall)
2012	**Ranked 1st** in the Graduation Ceremony 2012
2012	**Ranked 2nd** in class (**110** students overall)
2011-2012	ICS-FORTH - Undergraduate Fellowship

Attended Conferences, Workshops & Summer Schools

BIGDATA	Paris, March 2019
YSC2018	Heraklion, September 2018
SOrBet	Heraklion, September 2015
Mumia	Heraklion, July 2014
FIA	Athens, March 2014
HiPEAC	Fiuggi, Italy, 2013

Teaching Experience

○ CS-225 Computer Organization (Spring 2012, 2013, 2014, 2015)
  Prof. Manolis Katevenis
  - Responsible for Assignments Submit System
  - Responsible for installing QtSpim Simulator on Department's machines

- Reviewing Assignments
- Two-hour tutorial Answering Students Questions
- Answering Student's questions on the mailing lists
- Marking assignment submissions and examination scripts
- Office hours Answering student's questions

○ CS-120 Digital Design (Winter 2013, 2014)
Prof. Manolis Katevenis
- Responsible for four-hour per week laboratories where junior and senior Undergraduate students learn the basics of Digital Design, and Implement a simple processor
- Marking assignments and examination scripts
- Answering Student's questions on the mailing lists
- Four-hours Introduction to Digital Design Laboratories for junior Undergraduate students

○ CS-240 Data Structures (Winter 2012)
Prof. Panagiota Fatourou
- Project Design and Implementation
- Two-hour tutorial on C Programming Language
- Two-hour tutorial on Project's Data Structures
- Answering Student's questions on the mailing lists
- Marking project submissions and examination scripts
- Office hours Answering student's questions

○ CS-100 Introduction to Computer Science (Winter 2015)
Dr. Polyvios Pratikakis
- Answering Student's questions on the mailing lists
- Office hours Answering student's questions

Languages

Greek	**Native**
English	**Fluent**
German	**Elementary**

Interests

○ Reading	○ Chess
○ Cinematography	○ Working out
○ Camping	○ Travelling

References Available Upon Request