



Giorgos E Papadakis

January 2024

Curriculum Vitae

Personal Information

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

Research Interests

- Cloud Computing
- Storage Systems
- Embedded Computing
- Big Data Analytics
- Parallel 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– **Freelance Developer**, REMOTE.
- Development and Porting of various complex computer systems.
- November 2019
- 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– **Research and Development Engineer**, CARV, ICS-FORTH, Heraklion, Crete, Greece.
- December 2018
- Implementation and Evaluation of a multi-host orchestration tool over Cloud.
 - Evaluation of the performance of Arm/Xilinx boards using custom tool implemented in Python and Bash.
 - Writing and Reviewing Project Deliverables.
- February 2016– **Graduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece.
- February 2017
- “Fine-grained Evaluation of Virtio Network and Storage Drivers over KVM Virtual Machines.”
- January 2013– **Graduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece.
- November 2015
- “Design and Implementation of an Efficient Key-Value store for Persistent Storage.”
- April 2014– **Teaching Assistant**, UNIVERSITY OF CRETE, Heraklion, Crete, Greece.
- June 2014
- Teaching Computer Architecture Course for Undergraduate students of UoC with special needs.
- February 2012– **Intern**, UNIVERSITY OF CRETE, Heraklion, Crete, Greece.
- November 2012
- Evaluation Study for Software used in Schools.
- January 2011– **Undergraduate Research Assistant**, CARV, ICS-FORTH, Heraklion, Crete, Greece.
- November 2012
- “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	Redmine, 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

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- 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
- Cinematography
- Camping
- Chess
- Working out
- Travelling

———— References Available Upon Request