



Giorgos E. Papadakis

November 2020

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
- Automotive Software
- Big Data Analytics
- Parallel Computing
- Operating Systems

Education

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 2012–present. **Freelance Developer**, REMOTE.
“Programming, Porting and Debugging of various complex computer systems.”

November 2019–present. **Senior Software Engineer**, AUTOMOTIVE INDUSTRY(NDA).
“ -Code Maintenance and Solutions Support of Map Compilation automotive project. - Implementation of Vehicles Collision Prediction Library for Automotive Software. -Code Proving and Code Verification for large automotive projects.”

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

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.”

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.

April 2012– November 2012 **Intern**, UNIVERSITY OF CRETE, Heraklion, Crete, Greece.
 Evaluation Study for Software used in Schools.

2011–2012 **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, Xen, Kubernetes, Docker.

Debugging Tools GCC, GDB, Polyspace CodeProver, Polyspace BugFinder, MISRA C/C++, Google Coverage Tests, Valgrind, Cachegrind.

Versioning Control Systems Git, SVN, MKS.

Miscellaneous LATEX, Gnuplot, MATLAB, Inkscape, Tmux, Eclipse, Vim, GNU Make, CMake, Visual Studio.

Web Developing & Databases PHP, XML, SQL, HTML, Apache, Javascript, YAML, JSON.

Operating Systems and tools Redmine, Confluence, Jira, Linux, Microsoft Windows, Android OS, Computer Hardware and Support.

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
- Cinematography
- Camping
- Chess
- Photography
- Travelling

■ References Available Upon Request