George Z. Zachos

M.Eng. Student in Computer Science & Engineering

General Information

December 19th, 1995 Military Duty: Not Served Family status: Single

Contact

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Social Links

LinkedIn GitHub ResearchGate

Last updated: February 15th, 2019

Education

2013-Present M.Eng. in Computer Science and Engineering University of Ioannina Integrated master's programme at the Computer Science & Engineering Department (CSED), School of Engineering.

Language Skills

Greek Native Language

English Excellent Knowledge

Certified by: University of Michigan (November 2010)

Work Experience

10/2013-02/2016 Computer and Network Technician

The Computer Systems Support Group provides assistant work in the management of departmental computing resources, develops software applications for departmental use & aids in the operation of educational computer laboratories.

Research Groups

02/2015-Present Parallel Processing Group (PPG)

CSED, University of Ioannina PPG's main research interests lie in the area of parallel and distributed

CSED, University of Ioannina

C2

systems. For more information visit: paragroup.cse.uoi.gr

Projects

09/2017-08/2018 PRACE-5IP

Greek Research & Technology Network (GRNET)

I participated as a parallel programming instructor in the first year of operation of the PRACE Training Centre (PTC) established by GRNET. For more information about the Partnership for Advanced Computing in Europe (PRACE) visit: prace-ri.eu

Teaching Assistance

2017-2018 Systems Programming (core undergraduate) CSED, University of Ioannina

Semesters: Fall 2016, 2017, 2018

Programming Skills

- General-purpose programming: C, Java SE
- Shells: Bash, Bourne Shell
- Parallel programming: POSIX threads, OpenMP, MPI
- Systems programming: Linux, Unix
- GPIO library: WiringPi (for Raspberry Pi)
- Other tools: Portable Hardware Locality (hwloc)

I am also familiar with Python, MIPS Assembly, C++, Haskell, GNU Octave, OpenGL, Unity3d and HTML5.

Computing Skills

- Android application black box testing: Simple Password Vault Application
- Backup Tool: Attic
- Databases: Round Robin Database (RRDtool)
- Hypervisors: VMware ESXi, VMware Workstation, VirtualBox
- Operating Systems: GNU/Linux (Debian-based distributions)
- Server Administration: Debian ≥8, Ubuntu 14.04, VMware vSphere 6, Raspbian
- Single Board Computer: Raspberry Pi
- Version Control System: Git, Gitolite (Git Repository Hosting)

Software Projects

06/2016-Present OMPi compiler

Parallel Processing Group, CSED, UOI

An open source OpenMP compiler and runtime system for *C*. A major contribution of mine was the implementation of hardware topology detection and of thread affinity policies according to the OpenMP specifications. For more information visit: cse.uoi.gr/~ompi

16-20/04/2016

Implementation of FSS policy in MINIX CSED, University of Ioannina During the Operating Systems course, I extended the system kernel of MINIX 3.2.0 to support the fair-share scheduling (FSS) policy.

01/2015-02/2016 Aeolus Logger

Computer Systems Support Group, CSED, UOI

This project is about the implementation of a logging system and it's integration with Emerson cooling units, so that it can be used to monitor the environmental conditions of the cluster room in CSE Department.

Repositories

- Backup-script [BASH] https://github.com/gzachos/backup-script
 - A shell script that backups the directories specified in the configuration section and manages old backup files.
- Door-monitor [C] https://github.com/gzachos/door-monitor
 - Door status monitoring and email notification system using Raspberry Pi.
- Airtemp-lcd [C] https://github.com/gzachos/airtemp-lcd
 - Display air temperature retrieved by a DS18B20 sensor in an HD44780 LCD using Raspberry Pi.
- Ai-course-uoi [C] https://github.com/gzachos/ai-course-uoi
 - A-star, Uniform Cost Search (UCS) and Minimax algorithm implementation.
- Compilers-course-uoi [Python] https://github.com/gzachos/compilers-course-uoi
 - A compiler implementation for a minimal programming language that has borrowed its characteristics from C and Pascal, targeting the MIPS32 ISA.

Honors and Awards

21/10/2016 Recognition Award

The Dean of the Department of Computer Science and Engineering awarded me for my contribution to the Computer Systems Support Group.

19/11/2015 Contribution Award Greek Free and Open Source Software Society Awared for the localization of Elgg social networking engine.

Organizations

6/2014-Present Greek Free and Open Source Software Society (GFOSS)

9/2014-Present Institute of Electrical and Electronics Engineers (IEEE)