

George Z. Zachos

Senior Software Engineer at Teracloud

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Websites

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Social Links

LinkedIn
GitHub

Military Service

Fulfilled

09/2021 - 06/2022
32nd Marines Brigade
Hellenic Army

Languages

Greek: Native
English: C2 (2010)

Last updated:
March 03rd, 2026

Education

2013-2021 **M.Eng. in Computer Science and Engineering** University of Ioannina
Master of Engineering program at the Computer Science & Engineering Department (CSED), School of Engineering, University of Ioannina (UOI).
Thesis: "Topology and synchronization in OpenMP for manycore NUMA systems"

Work Experience

01/2025-Present **Senior Software Engineer** Teracloud, Athens
Development of OpenVMS operating system for x86-64 architecture.

07/2024-12/2024 **Senior 5G Telecom Software Engineer** Nokia, Athens

07/2022-06/2024 **Junior 5G Telecom Software Engineer** Nokia, Athens
Development of new Fixed Wireless Access (FWA) 5G products.

Volunteer Experience

10/2013-02/2016 **Computer and Network Technician** CSED, University of Ioannina
The *Computer Systems Support Group* provides assistant work in the management of departmental computing resources.

Research Groups

02/2015-09/2021 **Parallel Processing Group (PPG)** CSED, University of Ioannina
PPG's main research interests lie in the area of parallel and distributed systems. I was also the lead system administrator of PPG since 2016.

Research Projects

09/2017-08/2018 **PRACE-5IP** National Infrastructures for Research & Technology (GRNET)
Participated as a parallel programming instructor in the *Partnership for Advanced Computing in Europe* Training Centre established by GRNET.

Teaching Assistance

2016-2021 **Systems Programming (core undergraduate)** CSED, University of Ioannina
The C programming language and POSIX systems programming using C.
Semesters: Fall 2016, 2017, 2018, 2019, 2020 (remote due to COVID-19)

Programming Skills

- General-purpose programming: C, C++, Java SE, Python
- Shells: Bash, Bourne Shell
- Parallel programming: POSIX threads, OpenMP, MPI
- Systems programming: GNU/Linux
- GPIO library: WiringPi (Raspberry Pi)
- Scientific computing: GNU Octave
- Miscellaneous: hwloc, MIPS Assembly

Computing Skills

- CI/CD: Jenkins
- Databases: Round Robin Database (*RRDtool*)
- Hypervisors: KVM, VirtualBox, VMware ESXi, VMware Workstation
- Operating Systems: GNU/Linux (*Debian-based distributions*)
- Packet Analyzer: Wireshark
- Server Administration: Debian, Raspberry Pi OS, CentOS
- Single Board Computer: Raspberry Pi
- Version Control: Git, Gerrit (Code review), Gitolite (Git Repository Hosting)
- Miscellaneous: MQTT, Jira, Confluence, Microsoft 365

Software Projects

- 06/2016-09/2021 **OMP*i* compiler** Parallel Processing Group, CSED, UOI
Open source OpenMP compiler and runtime system for C. Among others, I implemented a NUMA-aware barrier, the OpenMP places and OpenMP processor binding policies. For more information visit: cse.uoi.gr/~ompi
- 02/2018-02/2021 **MARS Stack Visualizer** CSED, University of Ioannina
A tool for MIPS Assembler and Runtime Simulator (MARS) that allows real time visualization of stack segment modification operations.
- 01/2015-02/2016 **Aeolus Logger** Computer Systems Support Group, CSED, UOI
A logging system integrated with Emerson cooling units, that monitors the environmental conditions of the cluster room in CSE Department.

Repositories

- Backup-script [*BASH*] - gzachos.com/backup-script
 - A shell script that backups the directories specified in the configuration section and manages old backup files.
- Door-monitor [*C*] - gzachos.com/door-monitor
 - Door status monitoring and email notification system using Raspberry Pi.
- Nla-course-uoι [*C, Octave*] - gzachos.com/nla-course-uoι
 - Implementation of the Cholesky decomposition, Steepest Descent and Conjugate Gradients methods for solving linear systems.
- Compilers-course-uoι [*Python*] - gzachos.com/compilers-course-uoι
 - A compiler implementation for a minimal programming language that has borrowed its characteristics from C and Pascal, targeting the MIPS32 ISA.
- Cgis-course-uoι [*C++*] - gzachos.com/cgis-course-uoι
 - OpenGL application for polygon drawing, coloring, clipping and 3D extrusion.

For a full list of my publicly available repositories visit my GitHub profile.

Honors and Awards

- 09/05/2022 **Honorary Distinction & Service Award** 32nd Marines Brigade, Hellenic Army
Promoted to the rank of lance corporal and awarded the "Prosperous Service Award" for demonstrating ethos and excellence during service.
- 21/10/2016 **Recognition Award** CSED, University of Ioannina
The Dean of CSED awarded me for my contribution to the Computer Systems Support Group.
- 19/11/2015 **Contribution Award** Greek Free and Open Source Software Society
Awarded for the localization of Elgg social networking engine.

Seminars and Panels

PARTICIPATED AS A SPEAKER

- 2023 **2nd Alumni Day** CSED, University of Ioannina
Participated in the "Companies and Entrepreneurship" panel.
- 2014 **University of Ioannina IEEE Student Branch** Ioannina
Participated in two seminars covering various GNU/Linux-related topics.

Organizations

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