Arvanitis Christos

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EDUCATION

National Technical University of Athens   *2014 - Present*
Undergraduate Student   Expected GMO: 8.3/10
5-Year Integrated Curriculum, equivalent to Master of Engineering
Department of Electrical and Computer Engineering

SUMMARY

An undergraduate Electrical and Computer Engineering student with theoretical background, fieldwork and professional experience in a variety of fields including Computer Systems, Software, Computer Networks and Biomedical Engineering. Skillful and efficient, multifaceted in terms of technology stacks, always eager to broaden knowledge and optimize existing implementations.

TECHNICAL STRENGTHS & SKILLS

Programming Languages	C/C++, Python, Java, PHP, Javascript, Bash, Perl, SML, Assembly(8085/86,AVR,ARM), Matlab, R
Software & Tools	LaTeX, Git, Octave, Matlab, Docker, Vagrant, LXC, Kubernetes, WEKA, tcpdump, make, criu
Operating Systems	Linux, Unix, BSD, Windows
Databases	MySQL, MongoDB
Languages	Greek (native), English (Full professional experience), French (Elementary experience)

WORKING EXPERIENCE

Oxcart Design Studio   October 2018 - March 2019
In-house Facebook page parser/aggregator using Graph API

· Development of WordPress plugin for the aggregator using PHP, Angular/JavaScript, Bootstrap 4 and MySQL. Features include asynchronous content loading and local media caching.
· Design of periodic caching system for Graph API usage limits compliance, MySQL query optimization and REST API implementation for client deployment.

CURRENT PROJECTS

Diploma Research - Computer Systems Laboratory ⬀
National Technical University of Athens

· Thesis: Remote fork implementation and process migration using checkpoint/restore technologies.
· Advisors: Stefanos Geraggelos, Nektarios Koziris

Libreoffice Page Numbering Add-on ⬀
Main developer - Maintainer

· Implementation of page numbering UI and logic for LibreOffice/OpenOffice in Python/Basic.
· Second most popular extension after one year of release and most popular Writer extension in official Libreoffice extensions website.
· Translated in multiple languages from the community.

PAST PROJECTS

LibreOffice customization & design of legal templates ↗   April 2018 - August 2018
Google Summer of Code 2018 for GFOSS-Open Technologies Alliance

· Development of specific LibreOffice UI modifications/extensions for increased clerical officer productivity, project documentation as well as deployment and testing on Greek Council of State.
· Development of automation system embedded in LibreOffice, tailored for Greek legal documents as an alternative to non-standard templates for Greek Public Services departments.

Characterization scripts for RRAM modules ↗   November 2018 - May 2019
NTUA Electronic Nanomaterials and Devices Group

· Development of C/C++ automation scripts compatible with Keithley 4200S.
· Characterization and stress testing algorithms implementation for RRAM memory modules.
· Reduction in half of the time required to perform such measurements and increase significantly in the capability of collecting big amount of data for statistical purposes.

VirtIO Paravirtualized cryptographic character device for QEMU-KVM
OS Lab: C, Sockets, QEMU, cryptodev

Linux driver implementation for Ascensia ContourUSB glucose meter device ↗
Commit on glucometerutils library: Python, Abseil testing

Home security system implementation on AVR featuring control panel, LCD module and timer countdowns ↗
Microprocessors Lab: AVR assembly, C

Optimization of PHODS algorithm in C, custom kernel & software cross compiling for ARM architecture using crosstool/linaro ↗
Embedded Systems course: C, Linux kernel, System call implementation, crosstool toolchain, make, ARM

Wireless Mesh Sensor Network driver
Operating Systems Lab: C for character device kernel module development, Sockets

Full-stack price observatory service ↗
Software engineering course: Node.js, MongoDB, REST API, HTML5, Bootstrap 4, JavaScript, AngularJS, css/sass, Docker(deployment), Groovy(unit testing), gulp.js(build automation)

Cache Hierarchy Simulation Using Intel Pintool
Advanced Computer Architecture course

Car rental service implementation ↗
Databases course: HTML5, Bootstrap 3, AngularJS, PHP, MySQL

Askfetch - Linux system information script with modular architecture ↗
Personal project: Bash, systemd

SIGNIFICANT COURSES

- Operating systems
- Micro-processors lab
- Programming Languages I
- Databases
- Artificial Intelligence

- Algorithms & Complexity
- Computer Networks & Telecommunication Systems Simulation
- Embedded Systems Design
- Software Engineering