Ioannis **Petrousov**

COMPUTER SCIENTIST

Amsterdam, Netherlands

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| in ioannispetrousov

"Usque ad finem."

Served in the army until June 2017. Received my diploma in March 2017.

Skills

Programming	(Good) Python, Cython (Intermediate) bash, Matlab, Latex, Ruby (Basic) C, Java, Javascript
Web	(Basic) HTML, CSS. (Basic) Django, Flask and static site generators.
Operating systems	No problem using Linux based OS and working with the command line.
Hardware	Logisim, Modelsim, Xilinx Vivado, VHDL, GHDL
Languages	Greek, English, Russian

Experience

PVH Corp. *Amsterdam, Netherlands*
DevOps Specialist *May 2018 - Present*
- Introduced IT department to working in Agile: planning, stories, tasks, estimation
- Introduced IT dpt. to DevOps and established collaboration and communication with other teams
- Showcased collaboration tools: Jira, Confluence, Slack, git
- Built POCs which automate manual labor using Ansible, Python, Jenkins
- Established CI pipelines and testing environments with the QA team for eCommerce website
- Showcased various tools including Docker and DC/OS
- Communication with management and stakeholders

Ikbenfrits.nl *Amsterdam, Netherlands*
Backend developer *Mar. 2018 - Apr. 2018*
- Introduced to Ruby and Rails
- Wrote tests using rspec
- CI: Gitlab-CI, Docker

Vandebron Energie B.V. *Amsterdam, Netherlands*
DevOps developer *Oct. 2017 - Feb. 2018*
- Developing infrastructure on Azure
- Worked on setting up a Kubernetes cluster to facilitate the hosting of Scala based microservices
- CD/CI: Jenkins server and Dockerized, Groovy
- Automation: Ansible, bash
- Developed shell scripts for interaction with Azure, Kubernetes and GCP
- **Technologies: Azure, Kubernetes, Docker, Ansible, Nginx, Node, Kafka, Scala, Agile, Scrum**

Betiator gaming technologies *Athens, Greece*
System administrator *Aug. 2015 - Oct. 2016*
- Designed and implemented a cluster for microservices based on Docker, Mesos, Marathon and Zookeeper.
- Upgraded to DC/OS.
- Developed scripts for autoscaling, recovery and reconfiguration.
- Performed configuration and monitoring of Couchbase clusters.
- Implemented continuous delivery pipelines with Jenkins, Python and bash.
- Setup of network and security protocols for Docker, Mikrotik, HAProxy and CentOS.
- **Technologies: Docker, DC/OS, J2EE, Wildfly, Redis, NodeJS, Jenkins, Couchbase, Hadoop**

IP Digital   *Thessaloniki, Greece*
Linux administrator (intern)   *Oct. 2014 - Dec. 2014*
- Implemented a high availability cluster with Proxmox and Ovirt to facilitate application hosting.
- Created a backup and network storage using Freenas and zfs.
- Developed bash scripts for automation and logs.
- **Technologies: Ovirt, Unraid, Nas4free, Zfsguru, Nappit, Omnios, Openindiana, Nexenta, Proxmox**

Laboratory of Digital Systems and Computer Architecture   *Kozani, Greece*
Laboratory Assistant (Rewarding Scholarship)   *Mar. 2014 - Jun. 2014*
- Supervised students on the courses
    - Operating systems
    - Systems of parallel and distributed execution
    - Digital design

University Of Western Macedonia   *Kozani, Greece*
University Librarian (Rewarding Scholarship)   *Mar. 2013 - Jun. 2013*
- http://lib.uowm.gr/

Education

UOWM (University of Western Macedonia)   *Kozani, Greece*
M.S. in Informatics and Telecommunications Engineering   *2017*
- 5-year programme
- Societies: IEEE
- Grade 7.67/10.0

Honors & Awards

- Rewarding scholarship - University of Western Macedonia - 2014

- Rewarding scholarship - University of Western Macedonia - 2013

Publications

[1] Giannis Petrousov and Minas Dasygenis. A unique network EDA tool to create optimized ad hoc binary to residue number system converters. In *24th International Workshop on Power and Timing Modeling, Optimization and Simulation, (PATMOS), Palma de Mallorca, Spain, September 29 - Oct. 1*, 2014.

[2] Giannis Petrousov and Minas Dasygenis. Designing optimized forward residue number systems IP blocks converters from a network interface. In *18th Panhellenic Conference on Informatics, PCI '14, Athens, Greece, October 2-4*, 2014.

[3] Minas Dasygenis and Ioannis Petrousov. A networking EDA tool for multi-vector multiplication IP circuits. In *10th International Conference on Design & Technology of Integrated Systems in Nanoscale Era, DTIS 2015, Napoli, Italy, April 21-23,*, 2015.

[4] Minas Dasygenis and Giannis Petrousov. A generic moduli selection algorithm for the residue number system. In *10th International Conference on Design & Technology of Integrated Systems in Nanoscale Era, DTIS 2015, Napoli, Italy, April 21-23,*, 2015.

[5] Ioannis Petrousov Minas Dasygenis. Online generation of constant mulitplication accelerators. In *Panhellenic Conference on Electronics and Telecommunications, PACET, May 8-9*, 2015.

[6] Ioannis Petrousov and Minas Dasygenis. Generating custom bitwidth 4:2 compressors in hardware description language from an online tool. In *4th International conference on Modern Circuits and System Technologies, May 12-14*, 2015.

[7] Ioannis Petrousov and Minas Dasygenis. A CAD tool for custom magnitude comparators. In *Proceedings of the 19th Panhellenic Conference on Informatics, PCI '15, Athens, Greece, October 1-3*, 2015.

[8] I. Petrousov and M. Dasygenis. Realization of a hardware generator for the sum of absolute difference component. In *6th International Conference on Modern Circuits and Systems Technologies (MOCAST)*, pages 1–4, May 2017.

[9] Ioannis Petrousov and Minas Dasygenis. Automating the generation of hardware accelerators from custom arithmetic functions. In *Proceedings of the 21st Pan-Hellenic Conference on Informatics*, PCI 2017, pages 14:1–14:5, September 2017.

Extracurricular Activity

University Of Western Macedonia   *Kozani*
Volunteer System administrator   *Jan. 2011 - Jul. 2012*
- System maintenance: FreeBSD and Ubuntu.
- Virtualization: chroot, jails and VirtualBox.
- Storage: ZFS, NFS, Samba.
- Wrote automation and monitoring scripts.

Presentations

My presentations are hosted online on speakerdeck
https://speakerdeck.com/gpetrousov

I write a blog on medium https://medium.com/@petrousov

Projects

My public projects are hosted on github.

redis4mesos
Standalone Redis container to deploy on Mesos cluster with Marathon and route with HAProxy. This project was featured on Redis weekly `http://redisweekly.com/archive/129.html`

α-HDL Generator
I actively participate in the design, development, debugging and optimization of an online HDL generator. `http://arch.icte.uowm.gr/hdl/`

roboCIM
The platform allows you to control the LabVolt 5250 robotic arm on a chessboard and play chess or solve puzzles. `https://github.com/gpetrousov/roboCIM`