

Ioannis Petrousov

COMPUTER SCIENTIST

Amsterdam, Netherlands

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“Kaizen”

Hi there! - Welcome to my career summarizer.

Skills

Programming	Python, Shell, Lua, Javascript, Go
Infrastructure & Configuration	Terraform, Ansible
Public Cloud	AWS
Containers	docker, ECS, k8s
Operating systems	Linux & Unix based OSs
Languages	Greek, English, Russian, (conversational) Dutch

Experience

Hubs - a Protolabs company

Amsterdam, Netherlands

DEVOPS ENGINEER

Jan 2020 - Present

- Migrated self-hosted RabbitMQ to AmazonMQ with minimal downtime
- Proposed and developed the first Public API as a hackathon project
- Implemented monitoring and alerting from the ground up using NewRelic
- Obsessed with NewRelic cost optimization: saving \$1300/month on average
- Migrated several pipelines from Jenkins to Github Actions
- Performed Github Actions optimizations with parallelisation and smart caching
- Worked on the development of self-hosted kubernetes on AWS
- Worked on cost optimizations for AWS by migrating, optimizing and automating resources
- Collaborate cross-team to implement requested functionality on AWS and Kubernetes
- Perform rotational standby and ad-hoc work
- **Technologies: AWS, Terraform, Docker, k8s, Github Actions, Python, Shell, Concourse**

Mirabeau - a Cognizant Digital Business

Amsterdam, Netherlands

CLOUD SOLUTION ENGINEER

Mar 2019 - Present

Worked with several clients, focusing on AWS, on-site and remotely. Got voted as hero for contributions to technical writing.

Arcadia Group

CLOUD CONSULTANT

Jun 2020 - Jul 2020

- POC for a client
- Migrated a legacy 3-tier POS system into AWS
- **Technologies: AWS, CloudEndure**

Maxeda DIY Group

CLOUD ENGINEER

Mar 2019 - June 2020

- Worked with multiple dev and business teams
- Implemented CI/CD pipelines using Bitbucket pipelines
- Migrated monitoring and alerting from New relic into SignalFX, OpsGenie, Slack
- Migrated self-hosted Apache servers into a microservice
- Developed IaC in Ansible and Terraform
- Implemented various glue logic in Lambdas and Python
- **Technologies: AWS, Python, ECS, Docker, Terraform, SignalFX, Ansible, Apache, Logzio**

PVH Corp.

DEVOPS SPECIALIST

Amsterdam, Netherlands

May 2018 - Feb. 2019

- Developed custom plugins for Kong
- Evangelized Jira, Confluence, Slack, git
- Liaise with management and stakeholders (ISG, legal, directors)
- Worked in a highly agile team developing a centralised API system
- **Technologies: VMWare, Lua, Docker, OVH cloud, WCS**

Vandebron Energie B.V.

DEVOPS DEVELOPER

Amsterdam, Netherlands

Oct. 2017 - Feb. 2018

- Deployed 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**

Greek Army

CONSCRIPT

Greece

Mar. 2017 - Jun. 2017

- It's a mandatory conscription, in case you were wondering about the career pause
- **Stack: Wired telecommunications, G3A3 rifle**

Betiator gaming technologies

SYSTEM ADMINISTRATOR

Athens, Greece

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

LINUX ADMINISTRATOR (INTERN)

Thessaloniki, Greece

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, Zfs, Nappit, Omnios, OpenIndiana, Nexenta, Proxmox**

Laboratory of Digital Systems and Computer Architecture

LABORATORY ASSISTANT (REWARDING SCHOLARSHIP)

Kozani, Greece

Mar. 2014 - Jun. 2014

- Supervised students on the courses
 - Operating systems
 - Systems of parallel and distributed execution
 - Digital design

University Of Western Macedonia

UNIVERSITY LIBRARIAN (REWARDING SCHOLARSHIP)

Kozani, Greece

Mar. 2013 - Jun. 2013

- <http://lib.uowm.gr/>

Education

UWM (University of Western Macedonia)

M.S. IN INFORMATICS AND TELECOMMUNICATIONS ENGINEERING

Kozani, Greece

2017

- 5-year programme
- Societies: IEEE
- Grade 7.67/10.0

Certifications & Awards

- 2022 **Certified Kubernetes Application Developer (CKAD)**, LF-p2hxp1v6o8
- 2020 **AWS Certified DevOps Engineer - Professional**, WX0CEL01HJBEQJ97
- 2020 **AWS Certified Developer - Associate**, RZB70KQ1PMRQ1MS2
- 2019 **AWS Certified Solutions Architect - Associate**, XV6M9JC2EBF41Q32
- 2014 **Rewarding scholarship**, University of Western Macedonia
- 2013 **Rewarding scholarship**, University of Western Macedonia

Greece

Greece

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 multiplication 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.

Volunteering

University Of Western Macedonia

VOLUNTEER SYSTEM ADMINISTRATOR

- System maintenance: FreeBSD and Ubuntu.
- Virtualization: chroot, jails and VirtualBox.
- Storage: ZFS, NFS, Samba.
- Wrote automation and monitoring scripts.

Kozani

Jan. 2011 - Jul. 2012

Presentations

My presentations are hosted online on speakerdeck

<https://speakerdeck.com/gpetrousov>

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