loannis **Petrousov**

North Holland, Netherlands

| **M** petrousov | **in** ioannispetrousov

"Kaizen"

Hi there! - Welcome to my career summarizer.

Skills _____

Programming Python, Bash, C, Make, Lua, Javascript, Go, Flex, Bison, Compiler design

IaC & CM Terraform, Ansible

Public Cloud AWS

Containers FreeBSD jails, Mesos, DC/OS, Docker, AWS ECS, Kubernetes

Web HTML, CSS, Flask and static site generators.

Operating systems Linux & Unix based OSs

Languages Greek, English, Russian, Dutch (casual)

Experience _____

DPG Media

Amsterdam, Netherlands -

Hvbrid

FREELANCE DEVOPS ENGINEER

Jun 2023 - Today

I was brought in to containerize and migrate all of the frontend application from EC2 to ECS. Here's a short summary of the deliverables so far:

Architécted the Landing Zone for the ECS setup

• Built a Terraform module to easily replicate non-prod and prod environments

• Developed a custom deployment pipe for BitBucket pipelines to support deployments to the environments

Setup monitoring and log streaming into OpenSeach

- Implemented a lambda for Out of Office Hours ECS shutdowns and starts cost optimization
- Developed a setup for segragated test environments per application each dev own test environment

Documented and demoed the new setup

• Technologies: AWS, Terraform, Docker, Python, Bash, BitBucket pipelines

ZEN Software

Alkmaar. Netherlands Mar 2022 - Dec 2022

FREELANCE CLOUD ENGINEER

Maxeda

CLOUD SOLUTION ENGINEER

- Designed and implemented a new CI/CD pipelines stack for a Java based service: Hybris
- Scripted and migrated manual CI/CD pipelines for Hybris from Bamboo into BitBucket cloud

• Collaborated to bring self-hosted BitBucket runners for critical CI/CD pipelines

- Experimented hacking BitBucket self-hosted runners to use buildkit and full caching mechanism
- Designed and implemented changes in Terraform on AWS and Checkly
- Collaborated on making local development possible using docker-compose
- Developed a migration plan from Ansible to Terraform for ECS microservice deployments
- Implemented a Python lambda to dynamically activate AWS WAF challenge rule to prevent DDoS attacks
- Implemented Greta: a shell script which kills overlapping pipelines in BitBucket (thus making environmentaly friendly builds)
- · Technologies: AWS, Terraform, Docker, Makefile, BASH, Python, maven, BitBucket pipelines, HTTPD

Hubs - a Protolabs company

Amsterdam, Netherlands Jan 2020 - Mar 2022

DEVOPS ENGINEER

- Migrated a self-hosted RabbitMQ cluster into AmazonMQ with minimal downtime
- Proposed and developed the first Public ML pricing API as a hackathon project
- Implemented monitoring and alerting from the ground up with NewRelic
- Obsessed with NewRelic cost optimization: saving \$1300/month on average
 Migrated CI pipelines for Frontend and ML projects from Jenkins to Github Actions
- Performed Github Actions optimizations with parallelisation and smart caching
- Worked on the development of self-hosted kubernets on AWS
 Worked on cost optimizations for AWS by migrating, optimizing and automating resources
- Automated on/off-boarding into Github org.
 Collaborated cross-team to implemented requested functionality on AWS and Kubernets
- Performed rotational standby and ad-hoc work
- · Technologies: AWS, Terraform, Docker, k8s, Github Actions, Python, Bash, Concourse

Mirabeau - a Cognizant Digital Business

Amsterdam, Netherlands Mar 2019 - Dec 2020

SENIOR CLOUD SOLUTION ENGINEER

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

Karwei

SENIOR CLOUD SOLUTION ENGINEER

Jul 2020 - Dec 2020

Jun 2020 - Jul 2020

- Implementing requested functionality in Terraform on AWS
- Answering technical questions, related to AWS and CI/CD
- Participated in on-call rotation
- · Technologies: AWS, Terraform

Arcadia Group Remote

CLOUD CONSULTANT

POC for a client

- Migrated a legacy 3-tier POS system into AWS
- Technologies: AWS, CloudEndure

Maxeda DIY Group

Mar 2019 - June 2020 **CLOUD ENGINEER**

- 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. Amsterdam, Netherlands May 2018 - Feb. 2019

DEVOPS SPECIALIST

• Developed custom plugins for Kong (Lua)

- 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.

Amsterdam, Netherlands

Oct. 2017 - Feb. 2018

DEVOPS DEVELOPER

- 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

Greek Army Greece

CONSCRIPT 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

Athens, Greece

SYSTEM ADMINISTRATOR

Aug. 2015 - Oct. 2016

- Ran, maintened and managed services on bare-metal for a small startup
- 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.
- Technologies: Docker, DC/OS, shell, Java, Wildfly, Redis, Node, Jenkins, Couchbase, Hadoop

IP Digital Thessaloniki, Greece

LINUX ADMINISTRATOR (INTERN)

Oct. 2014 - Dec. 2014

- I was setting up a virtualization service on bare-metal for a small hosting company
- 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

Mar. 2014 - Jun. 2014

LABORATORY ASSISTANT (REWARDING SCHOLARSHIP)

- 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 _

UWM (University of Western Macedonia)

Kozani, Greece

M.S. IN INFORMATICS AND TELECOMMUNICATIONS ENGINEERING

2017

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

Certifications & Awards

- 2023 AWS Solutions Architect Associate, XV6M9JC2EBF41Q32
- 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

Greece

D13 Rewarding scholarship, University of Western Macedonia

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 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.

Volunteering _

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