

North Holland, Netherlands

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"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 (A2)

Experience \_\_\_\_\_

**DPG Media** 

Amsterdam, Netherlands -

Hvbrid

FREELANCE DEVOPS ENGINEER

Jun 2023 - Oct 2023

I was brought in to containerize and migrate the subscription applications of DPG from EC2 to ECS.

- Architected the Landing Zone with best practises for the ECS setup
- Developed a Terraform module to easily replicate non-prod and prod environments
- Developed a custom deployment pipe to enable deployments on the new environments Python
- Setup monitoring and log streaming into OpenSeach
  Automated AWS infrastructure cost control Lambdas
- Developed a scalable setup for segragated test environments each dev own test environment
- Delivered documentation for the new setup
- Technologies: AWS, Terraform, Docker, Python, Bash, BitBucket pipelines

**ZEN Software** 

Alkmaar, Netherlands - Hybrid

FREELANCE CLOUD ENGINEER

Mar 2022 - Dec 2022

I was brought in to help the team migrate the CI/CD pipelines of a monolithic application to the cloud.

**CLOUD SOLUTION ENGINEER** 

- Designed and implemented a new CI/CD pipeline stack for a Java based backend
- Scripted and migrated the manual CI/CD pipelines into BitBucket cloud
- Collaborated to bring self-hosted BitBucket runners
- Experimented hacking BitBucket self-hosted runners to use buildkit and full caching mechanism
  Implemented changes in Terraform on AWS and Checkly
  Collaborated on building docker-compose for local development
  Developed a Terraform module to migrate from Ansible for ECS deployments
  Implemented a lambda to dynamically toggle AWS WAF to prevent DDoS attacks Python

- Implemented an environmentally friendly script to prevent overlapping pipeline runs fun project
- 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

SENIOR CLOUD SOLUTION ENGINEER

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

Mar 2019 - Dec 2020

#### Karwei

SENIOR CLOUD SOLUTION ENGINEER

Jul 2020 - Dec 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 *Jun 2020 - Jul 2020* 

**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

**DEVOPS SPECIALIST** 

May 2018 - Feb. 2019

- 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

Rewarding scholarship, University of Western Macedonia

2014 **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 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