

Ioannis Petrousov

INDEPENDENT SOFTWARE ENGINEER

North Holland, Netherlands

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in ioannispetrousov

“Kaizen”

Hi there! - Welcome to my career summarizer.

Skills

Programming	Python, Bash, C, Make, Lua, Typescript, Go, Flex, Bison, Compiler design
IaC & CM	Terraform, Ansible, CDKTF
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
ML	PyTorch
Languages	Greek, English, Russian, Dutch (A2)

Experience

101 Ways

Amsterdam, Netherlands -

Hybrid

Nov 2023 - Jan 2024

SENIOR DEVELOPER

I was brought in to help the teams build the 2nd version of their service and migrate to it.

Recharge

SENIOR DEVELOPER

- I developed the AWS infrastructure in Typescript with CDKTF
- Automated storybook for PR environments
- Implemented the first Database storage for the new version
- Automated external docker images storage
- Implemented the first Cloudfront distribution for the new version
- Designed and built the AWS Kubernetes setup
- Built CI/CD pipelines with Github Actions
- Provided guidance on architecture decisions
- **Technologies: AWS, Typescript, CDKTF, Kubernetes, Istio, Github Actions, BASH**

DPG Media

Amsterdam, Netherlands -

Hybrid

Jun 2023 - Oct 2023

FREELANCE DEVOPS ENGINEER

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 OpenSearch
- Automated AWS infrastructure cost control - Lambdas
- Developed a scalable setup for segregated test environments - each dev own test enviroment
- Delivered documentation for the new setup
- **Technologies: AWS, Terraform, Docker, Python, Bash, BitBucket pipelines**

ZEN Software

Alkmaar, Netherlands - Hybrid

Mar 2022 - Dec 2022

FREELANCE CLOUD ENGINEER

I was brought in to migrate the build, test and deployment of a monolithic Java application in the cloud.

Maxeda

CLOUD SOLUTION ENGINEER

- Designed and implemented a new CI/CD pipeline stack for a Java based backend app
- Automated manual CI/CD pipelines into BitBucket cloud
- Brought self-hosted BitBucket runners for critical pipelines
- Hacked BitBucket self-hosted runners to use buildkit and full caching mechanism
- Built infrastructure with Terraform on AWS
- Implemented docker-compose setup for local application development
- Developed a Terraform module to migrate from Ansible
- Developed a lambda based mechanism to dynamically toggle AWS WAF challenge
- 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

DEVOPS ENGINEER

Jan 2020 - Mar 2022

- 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 kubernetes 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 implement requested functionality on AWS and Kubernetes
- 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

Mar 2019 - Dec 2020

- Worked with several clients, focusing on AWS, on-site and remotely
- Received the hero award of the year for technical writing - checkout my blog

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

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 the self-hosted HTTP Apache edge servers into scalable microservices
- I was the goto person for the edge routing services
- Developed IaC for AWS in Ansible and Terraform
- Implemented various glue logic with Lambdas and Python
- **Technologies:** AWS, Python, ECS, Docker, Terraform, SignalFX, Ansible, Apache, Logzio

PVH Corp.

DEVOPS SPECIALIST

Amsterdam, Netherlands

May 2018 - Feb. 2019

- Reverse engineered proprietary Kong plugins
- Developed custom Kong plugins (complete with unit tests no questions asked) - check my github profile!
- Liaise with management and stakeholders (ISG, legal, directors) to migrate to AWS ASAP!
- Worked with a team to build centralised API hub fronting an IBM service
- **Technologies: VMWare, Lua, Docker, OVH cloud, WCS**

Vandebroon Energie B.V.

DEVOPS DEVELOPER

Amsterdam, Netherlands

Oct. 2017 - Feb. 2018

- I built and deployed the infrastructure on Azure
- Built a Kubernetes cluster to send massive amounts of emails cheaply with Scala.
- Developed a bunch of CD/CI pipelines on Jenkins with Groovy
- Automated services and infrastructure provisioning with Ansible and BASH
- Developed several scripts for cleaning up stale resources on Kubernetes, Azure and GCP - cost saving
- **Technologies: Azure, Kubernetes, Docker, Ansible, Nginx, NodeJS, Kafka, Scala**

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

- Built and migrated from hosted to a microservice setup on bare metal before it was even a thing
- Implemented a HA cluster based on Docker, Mesos, Marathon and Zookeeper.
- Migrated to DC/OS.
- Developed an automation framework for infrastructure autoscaling, recovery and reconfiguration.
- Developed a soft shutdown and recovery program tied to physical UPS boxes.
- Developed and scaled Couchbase cluster setups for storage.
- Automated backups on physical tapes - Carefree backup system for my manager.
- Built CI/CD pipelines with Groovy, Python and bash.
- **Technologies: Docker, DC/OS, shell, Java, Wildfly, Redis, Node, Jenkins, Couchbase, Hadoop**

IP Digital

LINUX ADMINISTRATOR (INTERN)

Thessaloniki, Greece

Oct. 2014 - Dec. 2014

- I built a scalable virtualization platform on bare-metal blades.
- Migrated later to Ovirt (bare metal cloud) and setup Proxmox to facilitate application hosting.
- Implemented a backup NAS solution using Freenas and ZFS.
- Developed automation scripts for provisioning and logging.
- **Technologies: Ovirt, Unraid, Nas4free, Zfs guru, 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

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

Kozani, Greece

2017

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
- 2013 **Rewarding scholarship**, University of Western Macedonia

Greece

Greece

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