Ioannis **Petrousov**

INDEPENDENT SOFTWARE ENGINEER

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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, FFN
Languages	Greek, English, Russian, Dutch (A2)

Experience

101 Ways — *Amsterdam, Netherlands - Hybrid*

SENIOR DEVELOPER — *Nov 2023 - Jan 2024*

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 Kubernets setup
> - Built CI/CD pipelines with Github Actions
> - Provided guidance on architecture decissions
> - **Technologies: AWS, Typescript, CDKTF, Kubernetes, Istio, Github Actions, BASH**

DPG Media — *Amsterdam, Netherlands - Hybrid*

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 enviroment
- 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.

Maxeda

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*

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 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   *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.   *Amsterdam, Netherlands*

DEVOPS SPECIALIST   *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**

Vandebron Energie B.V.   *Amsterdam, Netherlands*

DEVOPS DEVELOPER   *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   *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*

- 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   *Thessaloniki, Greece*

LINUX ADMINISTRATOR (INTERN)   *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, 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

UWM (University of Western Macedonia)   *Kozani, Greece*

M.S. in Informatics and Telecommunications Engineering   *2017*

- 9 publications
- 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*
2013	**Rewarding scholarship**, University of Western Macedonia	*Greece*

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.