

Erodotos Demetriou

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DevOps Engineer working in the **Banking Sector**, ensuring zero downtime, fast and efficient deployments, robust CI/CD automations, cloud infrastructure provisioning and configuration, along with precise workload monitoring.

WORK EXPERIENCE

2022 - now

Hellenic Bank Public Company LTD
Software Engineer, DevOps

Nicosia - Cyprus

- **Managing enterprise-grade Kubernetes clusters (AKS)**, ensuring scalability, reliability, and high availability across environments.
- **Performed Kubernetes cluster migrations**, achieving seamless service transitions with minimal downtime.
- **Designed and implemented Kubernetes roles for development teams using Rancher**, streamlining access control and environment segregation.
- Used Infrastructure as Code (IAC) - **Helm, Ansible** and **Terraform** to provision Cloud Infrastructure, configure VMs, and deploy services on Kubernetes.
- **Created and optimized CI/CD pipelines on Azure DevOps**, achieving a 40% improvement in mobile app build times.
- **Established Git policies and workflows**, enhancing team collaboration, release consistency, and code quality.
- **Setup and managing Nexus Repository Manager (artifact management solution) with IQ Server (dependency firewall)**, creating a secure artifact management system aligning with DevSecOps practices.
- Integrated **Datadog** with Kubernetes for full-stack observability, configuring **logs, traces, APM, and monitors** to catch and investigate issues seamlessly and in time.
- Conducted research on designing **microservices feature environemnt based on the SLATE philosophy** (short term application testing environments).

2021

HF Markets Fintech Services LTD
Software Developer

Larnaca - Cyprus

Feature Development and System Integration

- Worked as a **Full-Stack Developer** with a focus on **Python** (Tornado framework) for both backend and frontend development.
- Developed and enhanced internal systems, including fund and data management tools, customized to meet client requirements.
- Daily tasks included **web development**, implementing **API endpoints** and writing **SQL scripts** to support data-driven operations.
- Designed and maintained **cron jobs** to automate scheduled tasks, ensuring reliable and efficient system performance.

EDUCATION

- 2021-2022 **The University of Edinburgh** **Scotland - United Kingdom**
Master of Science in Cyber Security, Privacy, and Trust (Grade – Distinction)
Key Modules: Blockchain and Distributed Ledgers, Security Engineering, Secure Programming
Modern Cryptography, Research Methods in Security Privacy and Trust
Thesis: "Evaluating the Performance and Anonymity of Mix-Networks"
- 2017-2021 **University of Cyprus** **Nicosia - Cyprus**
Bachelor of Science in *Computer Science (Grade – 8.4/10)*
Key Modules: Advanced Topics in Databases, Data Mining, Systems Security, Parallel
Processing, Computer Networks, Internet Technologies
Thesis: "Implementation and Evaluation of a Blockchain Database for IoT Data"

SKILLS

- Programming: Golang, Python, Bash, C, Java.
- Tools: Azure DevOps, Azure Pipelines, Git, Docker, Kubernetes, Helm Charts, Ansible, DataDog, Rancher, Nexus Repository Manager.
- Languages: English (Fluent), Greek (Native)

AWARDS - ACHIEVEMENTS

- Awarded with *Scotland's Saltire Scholarship*, for postgraduate university students, provided by the Scottish Government (2021)
- Fastest Car Award: "F1 In Schools" International Finals Abu Dhabi (2014)

PUBLICATIONS

- **"Triastore: A Web 3.0 Blockchain Datastore for Massive IoT Workloads"**, Panagiotis Drakatos, Erodotos Demetriou, Stavroulla Koumou, Andreas Konstantinidis, Demetrios Zeinalipour-Yazti **"The 22nd IEEE International Conference on Mobile Data Management"** (MDM '21), IEEE Press, Pages: 6 pages, June 15 - June 18, 2021, Toronto, Canada, 2021.
- **"Towards a Blockchain Database for Massive IoT Workloads"**, Panagiotis Drakatos, Erodotos Demetriou, Stavroulla Koumou, Andreas Konstantinidis, Demetrios Zeinalipour-Yazti **"Proceedings of the 3rd Intl. Workshop on Blockchain and Data Management"** (BlockDM '21), IEEE Press, Pages: 4 pages, April 19, 2021, Chania, Crete, Greece, 2021.