

# Erodotos Demetriou

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**DevOps Engineer** with **2 years of experience** 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.

## EDUCATION

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2021-2022	<b>The University of Edinburgh</b> <i>Master of Science in Cyber Security, Privacy, and Trust (Grade – Distinction)</i> <u>Thesis</u> : “Evaluating the Performance and Anonymity of Mix-Networks”	<b>Scotland - United Kingdom</b>
2017-2021	<b>University of Cyprus</b> <i>Bachelor of Science in Computer Science (Grade – 8.4/10)</i> <u>Thesis</u> : “Implementation and Evaluation of a Blockchain Database for IoT Data”	<b>Nicosia - Cyprus</b>

## WORK EXPERIENCE

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2022 - now	<b>Hellenic Bank Public Company LTD</b> <i>Software Engineer, DevOps</i>	<b>Nicosia - Cyprus</b>
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### Kubernetes Infrastructure Management:

- Refactored and maintain Helm Charts for over **40 microservices**, improving deployment consistency.
- Managed and operated **4+ Kubernetes clusters**, ensuring stability and performance.
- Performed **Kubernetes cluster migrations** for Production environments, minimizing downtime and ensuring seamless transitions.
- Implemented **centralized authentication** and **fine-grained RBAC** for Kubernetes clusters using **Rancher Manager**. This setup provided tailored resource access for developers and teams while enforcing precise access control.

### CI/CD Pipelines Automation

- Developed **containerized agents** to execute both scheduled and ad-hoc pipelines, enabling automation tasks with greater flexibility and scalability.
- Designed and implemented **CI/CD pipelines** to automate and streamline the software delivery lifecycle for Mobile, Backend and Frontend teams.

### Monitoring and Observability

- Deployed and configured Datadog agents for precise workload monitoring.
- Created comprehensive dashboards and alerts to allow incident investigation and debugging.

### Artifact and Dependency Management

- Set up and manage **Nexus Repository Manager** to proxy and store artifacts.

### Git Workflows and Version Control

- Extended and enhanced the existing **Git workflow** by defining branch and commit policies as well as standardized naming conventions.
- Implemented **Git policies** that enforce checks before merging code into the main branch, **improving version control and code quality**.

2021

**HF Markets Fintech Services LTD**

**Larnaca - Cyprus**

*Software Developer*

### 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.

## SKILLS

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

## AWARDS - ACHIEVEMENTS

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

## PUBLICATIONS

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- **"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.