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.

WORK EXPERIENCE

2022 - now **Hellenic Bank Public Company LTD**   **Nicosia - Cyprus**
Software Engineer, DevOps

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.

Automation & CI/CD Pipelines
- Developed **Ansible script** to automate the installation and setup process of ActiveMQ on linux based hosts.
- 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 Fronend teams, using **Fastlane**, **Bash** scripts and **Azure Pipelines**.

Monitoring and Observability
- Deployed and 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, such as Cocoapods, Nugets, Maven Packages, NPM Packages and Docker Images.
- Setup fine grained RBAC to allow users from different teams manage their 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.

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.