



APOSTOLOS LAZIDIS

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WORKING EXPERIENCE

DevSecOps Engineer

May 2024 - Present

European Dynamics

Remote

Technologies: Kubernetes, Helm Charts, Docker, ArgoCD, AWS, Prometheus, Grafana, Loki, Netdata, AWS CDK, Jenkins, GitLab CI, SonarQube, Dependency Track, OWASP Zap.

Responsibilities:

- Developed and maintained secure CI/CD pipelines for continuous integration and delivery. Integrated security testing tools into the CI/CD pipelines for vulnerability scanning and code analysis.
- Managed and orchestrated containerized applications on Kubernetes clusters. Developed and maintained Helm charts for automated Kubernetes resource deployments.
- Automated and managed GitOps workflows for continuous deployment using ArgoCD.
- Designed and implemented secure infrastructure on AWS using Infrastructure as Code (IaC) with AWS CDK.
- Set up and managed monitoring systems for real-time visibility into infrastructure and performance, enabling proactive detection and resolution of issues.

Full Stack Engineer

Aug 2023 - April 2024

FlexCar

Remote

Technologies: Next.js, Node.js, TypeScript, MongoDB, AWS, GitHub Actions.

Responsibilities:

- Developed REST APIs and integrated application with Google Maps API.
- Contributed to the implementation of real-time data features.
- Designed and developed efficient UIs to enhance user experiences.
- Designed and optimized ETL processes for seamless data extraction and transformation.
- Optimized application performance by refactoring inefficient code.
- Employed GitHub Actions to create infrastructure in AWS, automate integrations and deployments.

Assistant Lecturer on Lab

School of Electrical & Computer Engineering,
Technical University of Crete

Oct 2023 – March 2024

Chania, GR

Responsibilities:

- Developed and delivered engaging laboratory sessions focusing on HTML, CSS, JavaScript, Docker, Keycloak, Apache Kafka, Google Cloud Platform, and microservices.
- Assisted students in the integration and configuration of Keycloak, Apache Kafka, and Google Cloud Platform services into laboratory project, providing valuable insights into cloud computing and modern application development. Designed and developed efficient UIs to enhance user experiences.
- Provided hands-on guidance and support to students during the laboratory project, fostering a dynamic and interactive learning environment. Optimized application performance by refactoring inefficient code.

Web Developer

KEDIMA (TUC)

Oct 2022 – Febr 2024

Chania, GR

Technologies: HTML5, CSS, Vanilla JavaScript, React.JS, Typo3, Nginx.

Responsibilities:

- Designed, developed, and maintain user-friendly website for Technical University of Crete.
- User can search files by keywords or the category menu.

Website: <https://www.tls.tuc.gr>

Web Developer

Hagiographies Dimas

May 2020 – May 2022

Grevena, GR

Technologies: HTML5, CSS, Bootstrap, JavaScript, PHP & MySQL.

Responsibilities:

- Developed and maintained company's portfolio.
- User can insert, update & delete photos from MySQL database.
- Supports sign-in, cryptography, password validation.

EDUCATION

Master of Science in Computer Science and Engineering

Technical University of Crete

Nov 2022 – Present


Chania, GR

Integrated Master of Science in Electrical and Computer Engineering

Integrated Master of Science in Electrical and Computer Engineering

Sept 2014 – Aug 2021

Chania, GR



- **Dissertation:** Publication and Subscription Services in Web Applications: A Comparative Study. 

PUBLICATIONS

Journal Publications

1. Apostolos Lazidis, Konstantinos Tsakos, Euripides G.M. Petrakis, "*Publish - Subscribe Approaches for the IoT and the Cloud: Functional and Performance Evaluation of Open-Source Systems*", Internet of Things, May 17, 2022.
2. Apostolos Lazidis, Euripides G.M. Petrakis, Spyridon Chouliaras and Stelios Sotiriadis, "*Open-Source Publish - Subscribe Systems: A Comparative Study*", 36th International Conference on Advanced Information Networking and Applications (AINA 2022), Virtually, Sydney, Australia, April 13 - 15, 2022.

PROJECTS

- **StornX**: Latency-optimized node and traffic scheduling system for Kubernetes. Features OptiScaler for communication-aware replica placement across nodes and availability zones, and OptiBalancer for metric-aware traffic distribution based on latency, resource utilization, and replica count. 
- **Kube-netlag**: A network performance testing and latency simulation tool deployed as a DaemonSet across Kubernetes clusters. Measures network delays between nodes using Netperf with Prometheus metrics exposure for monitoring. 

SKILLS & KNOWLEDGE

Containerization & Service Mesh: Docker, Kubernetes, Amazon Elastic Beanstalk, Amazon Elastic Container Service, Istio Service Mesh, Anthos Service Mesh

Cloud Providers: AWS, Google Cloud Platform, Microsoft Azure

CI/CD & Infrastructure Provisioning: Jenkins, GitHub Actions, GitLab CI, Terraform, Amazon CDK, Helm Charts, ArgoCD

Monitoring and Logging: Grafana, Prometheus, Amazon CloudWatch, Loki, Netdata

Security & Code Quality: SonarQube, Dependency Track, OWASP Zap

Publish-Subscribe Systems: Apache Kafka, RabbitMQ, Orion, Scorio, Stellio

Databases: MySQL, PostgreSQL, MongoDB, Amazon Timestream

Programming Languages, Libraries & Web Frameworks: Bash, JavaScript, Python, TypeScript, PHP, Java, Node.js, React.js, Next.js, HTML5, CSS

CMS: Typo3

ADDITIONAL INFORMATION

Languages: GREEK: Native || ENGLISH: Proficient (C2) || FRENCH (B1)

Military Services: Sept 2021 – Sept 2022