

Konstantinos Papadogiannis

Informatics & Telematics Graduate | Backend | Distributed Systems | Cloud & DevOps

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Informatics and Telematics graduate focused on backend engineering, distributed systems and cloud technologies. Hands-on experience through academic projects with Go, Java/Spring Boot, React, Kubernetes and Hyperledger Fabric, including a blockchain thesis project with secure browser-side transaction signing.

EDUCATION

B.Sc. in Informatics and Telematics

Harokopio University of Athens

2022 – 2026

Average 7.51 / 10

- Bachelor's Thesis: 10 / 10
- Relevant coursework: DevOps Concepts and Tools (10/10), Computer Networks (9/10), Distributed Systems (8/10)

BACHELOR'S THESIS

Development of a Decentralised Application (dApp) and Smart Contracts for the Digital Submission and Management of Subsidies

Apr 2026 – Sep 2026

Written alongside a companion thesis on the network infrastructure; supervisor: Asst. Prof. Anargyros Tsadimas

- Built the application layer of a seven-organisation Hyperledger Fabric 3.0 network for EU farm subsidies: Go chaincodes, backend services and React/TypeScript portals
- Developed a Manifest V3 browser wallet that generates and encrypts each farmer's key and signs transactions locally, with proposal checks that block blind signing
- Modelled the subsidy policy as a versioned on-chain document, enforced roles and application states in the chaincode, and isolated sensitive data in private collections
- Covered the system with role, transition, unit and end-to-end tests across chaincode and portals

ACADEMIC PROJECTS

ErgoHub: freelance marketplace on Azure Kubernetes

Feb 2025 – Jul 2025

DevOps Concepts and Tools, team of two

- Built Jenkins pipelines and Ansible playbooks to test, containerise and deploy the app
- Deployed Spring Boot and React/Redux to AKS behind NGINX Ingress with TLS, PostgreSQL and MinIO

OpenStack private cloud on Google Cloud

Jun 2026

Cloud Computing Management, individual

- Installed DevStack on a GCP VM and hosted a three-tier app, working around GCP's floating-IP and routing restrictions

GPU matrix multiplication in CUDA

Jun 2026

Modern Parallel Architectures and High-Performance Programming, individual

- Sped up a 4096 × 4096 matrix multiplication on an NVIDIA T4 by 3.6× with tiling and register blocking

Deep learning for image classification, segmentation and detection

Feb 2026

Computer Vision and Graphics, individual

- Fine-tuned and compared CNN and transformer models (ResNet18, ViT, VGG16) and trained U-Net and Faster R-CNN in PyTorch

Household energy data mining

Jan 2026

Data Mining, team of two

- Predicted high-consumption days and next-day energy use with Gradient Boosting, Random Forest and LSTM models

SKILLS

Programming	Go, TypeScript, JavaScript, Java, Python, SQL, C, CUDA, Bash
Backend	Hyperledger Fabric (chaincode, private data, Gateway), Spring Boot, REST, gRPC, Keycloak (OIDC), JWT
Frontend	React, Redux, Tailwind CSS, Vite, browser extensions (Manifest V3), Web Crypto API
Cloud and DevOps	Docker, Kubernetes (AKS), Jenkins, Ansible, OpenStack, Google Cloud, Azure, Nginx, Linux, Git
Data and ML	PostgreSQL, PyTorch, TensorFlow/Keras, scikit-learn, pandas
Testing	Go testing, Vitest, Playwright, JUnit, Jest
Languages	Greek (native), English (professional working proficiency)