



Christos (Kitsos) Orfanopoulos

Senior Software Engineer · Technical Lead · Health Tech

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PROFILE

Senior full-stack engineer and technical lead with a track record of taking healthcare products from concept to production. Java and Spring Boot on the backend, React on the front, AWS underneath, and teams of 5–10 engineers across three countries shipping weekly into U.S. hospitals under HIPAA.

EXPERIENCE

- Veltiston AI** Athens, hybrid
Senior Software Engineer May 2026 – present
Full-stack Software Engineer May 2024 – May 2026
 - One of the first engineers at an AI healthcare startup founded by MIT Professor Dimitris Bertsimas; grew into Technical Lead of the flagship Nurse Scheduling platform and project lead on three projects.
 - Architected and built the cloud-native Nurse Scheduling platform (Java, Spring Boot, React, MySQL, AWS), now live in four major U.S. hospitals.
 - Leads cross-functional teams of 5–10 developers across Greece, Boston (USA) and Morocco: architecture, technical decisions, code reviews and sprint planning.
 - Delivered an AI documentation assistant (Spring AI, RAG), SMART on FHIR apps inside Epic EHR, SAML 2.0 SSO, UKG integration, notifications and audit logging.
 - Modernised a legacy Java/Angular application through Agile practices, engineering standards, CI/CD, documentation and incremental refactoring.
 - Ships weekly, secure, HIPAA-compliant releases with customers, Product, QA and DevOps; runs technical interviews, mentors and onboards engineers.

Java Spring Boot Spring AI React MySQL AWS Docker Jenkins
GitLab CI Flyway SMART on FHIR SAML Grafana Sentry
- Holistic Hospital Optimization** contract, remote
Lead Software Engineer May 2024 – present
 - Software lead on AI-powered healthcare applications for U.S. hospitals: nurse scheduling, length-of-stay optimisation and SMART on FHIR integrations.
- IBM** Athens, on-site
DevOps Engineer November 2023 – May 2024
 - Core banking transformation at the National Bank of Greece: migrating legacy PL/I and COBOL systems to Infosys Finacle.
 - Designed the integration architecture for legacy subsystems in both the coexistence and target states.
 - Deployments and CI/CD automation with Jenkins, Podman, ELK and Grafana.
 - Represented IBM Greece at an international Agile & Enterprise Design Thinking bootcamp in Hamburg.

Jenkins Podman Docker Compose ELK Stack Grafana Jira

SKILLS

- Languages**
Java (17–25) JavaScript
TypeScript Python C++
- Backend**
Spring Boot Spring Framework
Spring Security Spring Data JPA
Hibernate REST APIs
Microservices
- AI**
Spring AI Ollama RAG
Agentic AI
Artificial neural networks
Pose estimation
- Frontend**
React Angular HTML CSS
Tailwind CSS
- Databases**
MySQL Flyway
- Cloud & DevOps**
AWS (EC2, S3, SES, SNS) Docker
Docker Compose Podman
Jenkins GitLab CI
Bitbucket Pipelines Git
- Observability & monitoring**
Grafana Graylog ELK Stack
Sentry
- Testing**
JUnit Mockito JaCoCo
- Healthcare & security**
SMART on FHIR Epic EHR UKG
SAML 2.0 SSO Microsoft ADFS
JWT HIPAA reCAPTCHA
- Architecture & design**
Jira Confluence Figma UML
SRS Agile/Scrum

LEADERSHIP & SERVICE

- Hellenic Army / Special Forces**
Reservist Second Lieutenant in Marine Special Forces September 2022 – 22 November 2023
 - Platoon Leader, Weapons Officer and Deputy Company Commander in a Marine Company; graduated 3rd in class from the Infantry Reserve Officers School.
- Christian Youth Foundation “Pantokrator”**
Director February 2021 – September 2022
 - Held alongside university studies: ran the foundation’s premises, staff, volunteers, budget and events, and led its renovation and modernisation.
- Citylab**
Robotics tutor 2020 – 2021
 - Taught robotics classes to children alongside university studies.

EDUCATION

- National Technical University of Athens (NTUA)**
MEng, Electrical & Computer Engineering 2017 – 2022 · GPA 8.4
 - Integrated five-year Master of Engineering, completed in the nominal five years.
 - Thesis on movement compliance analysis with machine learning, graded with distinction and later published.
- Model High School of Ionidios, Piraeus** 2015 – 2017 · GPA 19.9 / 20
 - Ranked 1st in the entrance exam; Piraeus prize for the top graduating grade of 2017.
- Model Junior High School of Evangeliki, Nea Smyrni** 2011 – 2015
 - Ranked 1st in the admission exam; first of the class every year.

PUBLICATIONS

- arXiv, Cornell University**
An M-Health Algorithmic Approach to Identify and Assess Physiotherapy Exercises in Real Time 11 December 2025
 - Real-time, on-device assessment of physiotherapy exercises from a phone camera: pose estimation, angle features, lightweight classifiers and a modified Levenshtein distance.

BEYOND WORK

Students’ representative and co-founder of the Independent ECE Students at NTUA: e-voting, a depoliticised assembly, and representation by lawful, democratic means.

LANGUAGES

- Greek** Native ●●●●●
- English** C2 · Proficiency ●●●●●
- French** B2 ●●●●●

CERTIFICATIONS

- Universal AI Foundational Modules**
MIT Open Learning · August 2026
- Group 1: Biomedical Research Investigators**
CITI Program · May 2026 – May 2029
- Docker Essentials: A Developer Introduction**
IBM · May 2024

SEMINARS & COURSES

- IBM graduate program (2024)
- Agile & Enterprise Design Thinking bootcamp, Hamburg (2024)
- Arduino IEEE Workshop at NTUA (2018)

AWARDS

- National Biology Competition 2016: ranked 2nd of ~1,650
- Awards in Physics, Mathematics, Informatics and Literature contests

VOLUNTEERING

- Leading volunteer, Christian Youth Foundation “Pantokrator” (2017–2021, 2023–today)
- European Researchers’ Night, NTUA (2019)
- 100 years of ECE celebration, NTUA (2017)
- Blood donor since 2017

INTERESTS

Running · Cycling · Theater · DIY & handiwork · Chess · Hiking & camping