

# Iasonas Kakandris

Thessaloniki, Greece | [ikakandris@gmail.com](mailto:ikakandris@gmail.com) | [Website](#) | [LinkedIn](#) | [GitHub](#) | +306972256543

## Professional Experience

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**MLOps Engineer (formerly ML Engineer Intern)**, ICS, FORTH, Greece July 2025 – Present

- Trained a machine learning model for semantic segmentation of river regions, achieving a Dice score of 0.91.
- Deployed the containerized data pipeline on Kubernetes, integrating Kafka, MinIO, PostgreSQL, and Grafana.
- Developed a full-stack web application for real-time model interaction, visualization, and performance monitoring.

**Software Engineer Intern**, Technology Without Borders, Greece July 2024 – Sept 2024

- Created customized B2B apps using Microsoft PowerApps, reducing processing time by 98%.
- Designed an event management app using Flutter and Dart with real-time tracking and cloud integration.
- Built a Chrome extension using Plasmo and Firebase for a cross-platform reminders app.

**Software Engineer**, SpaceDot, Greece Nov 2021 – Nov 2024

- Developed the Angular-based UI for the satellite data transmission system facilitating better UX.
- Dockerized the application, reducing deployment time by 40% and improving satellite systems' cross-environment functionality.

## Key Skills

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**Programming Languages:** Python, C++, Java, TypeScript, Dart, C

**Software tools:** Angular, Flutter, Kafka, Quix, Kubernetes, SQL, Git, Docker, Jinja, TextX, Grafana, FastAPI

## Education

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**Aristotle University of Thessaloniki (AUTH)**, Thessaloniki, Greece Sept 2019 – Dec 2025

M.Eng in Electrical and Computer Engineering (integrated masters; 300 ECTS)

- **Grade:** 8.13/10
- **Major:** Electronics and Computers
- **Key modules:** Computer Architecture, Object-Oriented Programming, Data Structures, Algorithms Analysis and Design, Neural Networks - Deep Learning, Signals and Systems, Software Engineering I & II
- **Thesis:** Design and implementation of a textual domain language to produce machine learning applications on data streams
  - Developed a declarative DSL using TextX and Jinja for streaming ML pipelines.
  - Integrated Kafka, Quix Streams, and River for real-time data ingestion and online learning.
  - Used Docker for deployment and enabled data visualization
- **Relevant Projects:**
  - **CrisisMapper:** Disaster mapping tool using SQL and Angular, centralizing critical disaster information.
  - **Neural Networks:** Developed and compared SVM, MLP, and RBF models in Python.
  - **KitchenGuard:** Arduino-based project enhancing kitchen safety and security.

## Personal Projects

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**Self-Hosted Media Server Stack:** using Docker with \*Arr apps Jellyfin and qBittorrent, secured via VPN.

**From bits to being:** A blog website using jekyll to share knowledge about DIY projects, and technology.

## Certifications

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**Cubesat Hands-on Training Week 2022**, European Space Agency May 2022 - June 2022

**Automatic Control of Aerospace Systems**, Delft University of Technology Nov 2023 - Nov 2023

## Societies and Affiliations

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Mensa – Member: Top 2% IQ globally, admitted based on standardized intelligence testing

## Languages

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Greek (Native), English (C2), German (B1), Italian (B2)