Iasonas Kakandris

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Education

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 (expected)
- **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.

Key Skills

Programming Languages: Python, C++, Java, TypeScript, Dart, C
Software tools: Angular, Flutter, Kafka, Quix, Kubernetes, SQL, Git, Docker, Jinja, TextX, Grafana, FastAPI

Professional Experience

Machine Learning Engineer Intern, ICS, FORTH, Greece   July 2025 – Sept 2025

- Trained a machine learning model for semantic segmentation of river regions, achieving a Dice score of 0.91.
- Dockerized the full data pipeline including Apache Kafka, MinIO, TimescaleDB, and Grafana.
- Developed a web app to interact with the model, trigger predictions, and display results in real time.

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.

Personal Projects

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

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

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

Languages

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