

Iasonas Kakandris

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Education

Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece Sept 2019 – Present
BSc & MSc in Electrical and Computer Engineering (5-year joint degree; 300 ECTS)

- **Grade:** 7.93/10
- **Concentration:** Electronics and Computers
- **Relevant Coursework:** 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

Professional, Research, and Volunteering Experience

Software Engineer, SpaceDot 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.

Software Engineer Intern, Technology Without Borders 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.

Projects

CrisisMapper: Engineered a disaster mapping tool using SQL and Angular, centralizing critical disaster information for improved accessibility and decision-making

Neural Networks: Developed and compared different neural network models (SVM, MLP, RBF) in Python

UART in Verilog: Implemented a Sender-Receiver System in Verilog using UART Protocol, ensuring accurate data transmission

KithcenGuard: Developed an Arduino-based project aimed at enhancing kitchen safety and security.

Licenses and Cerifications

Cubesat Hands-on Training Week 2022	European Space Agency
Automatic Control of Aerospace Systems	Delft University of Technology
Basic Life Support for Healthcare and Public Safety	European Resuscitation Council

Skills

Languages: Python, C++, Java, TypeScript, Dart, C, JavaScript

Software tools: Angular, Flutter, PowerApps, Firebase, SQL, Verilog, Git, Kafka, Quix, River, TextX, Jinja

Societies and Affiliations

Mensa – Member

Languages

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