

Dimitris Kavelidis Frantzis

 dimitris.kave@gmail.com  +306971990571

 Sarantaporou 29, Thessaloniki  Profile Page  LinkedIn  GitHub

PROFILE

Creative and pragmatic engineer with a human-centric approach to building new technologies. I excel at understanding the bigger picture of complex problems before rapidly prototyping and iterating solutions with a fail-fast mindset and high attention to detail. Proud open-source contributor.

PROFESSIONAL EXPERIENCE

Software Engineer & Technical Trainer (Mandatory Military Service),
Hellenic Armed Forces
Mar 2026 – Present | Kastoria / Evros , Greece

- Summary:** Driving military unit modernization through administrative software automation and delivering technical instruction on modern military drone systems.
- **Architected and developed a custom administrative application** to automate unit operations, digitize service and watch scheduling, and streamline daily workflows.
 - Served as an **assistant drone trainer** delivering lectures and practical modules on modern military drone development and operational usage.

Software / Cloud Engineer, NET2GRID 
Feb 2023 – Mar 2026 | Thessaloniki, Greece

- Summary:** Designing and developing scalable backend services and cloud-native solutions on AWS to process and analyze large-scale IoT smart meter data and provide valuable energy consumption insights.
- **Architected decoupled Python/Go/PHP microservices** using both AWS serverless and containerized (ECS) solutions, optimizing user onboarding and real-time IoT ingestion for millions of smart meter data points.
 - **Engineered a custom internal serverless framework** in Python, reducing microservice development onboarding and deployment setup time across engineering teams.
 - **Spearheaded a platform modernization** project migrating legacy microservices to a serverless AWS architecture (Lambda, S3, SQS), reducing infrastructure operational costs.
 - **Led a critical company-wide PHP 7 to 8 production upgrade**, refactoring legacy codebases to eliminate technical debt and improve runtime execution efficiency.
 - **Constructed automated CI/CD pipelines via GitHub Actions**, establishing standardized testing and canary deployment workflows to guarantee high system availability.

R&D Engineer, Intelligent Systems & Software Engineering Labgroup (ISSEL) 
Nov 2021 – Feb 2023 | Thessaloniki, Greece

- Summary:** Applied digital signal processing and machine learning to speech features to develop an early-stage dementia screening test, as part of my thesis and the following research beyond it.
- Designed interview protocols and processed speech data to train machine learning models, achieving **94.1% classification accuracy** for Healthy Controls vs. MCI.
 - Published and presented research findings at two peer-reviewed national and international conferences (**HELINA Acoustics 2022, MeCoND 2023**).

TECHNICAL SKILLS

Cloud (AWS): Lambda, API Gateway, ECS, IAM, S3, SQS, SNS, IoT Core, ElastiCache, CloudWatch, Cognito

Programming Languages: Python, PHP, Go, Java, JavaScript, MATLAB

Databases: MySQL, DynamoDB, MongoDB, Redis (ElastiCache)

DevOps & IaC: Docker, AWS SAM, Git, Github Actions

Monitoring & Observability: Grafana, Prometheus, VictoriaMetrics, CloudWatch Alarms & Dashboards

EDUCATION

Diploma/MEng in Electrical & Computer Engineering (8.44/10),
Aristotle University of Thessaloniki 
2017 – 2022 | Thessaloniki, Greece

Focused on: Digital Signal Processing, Machine Learning, Biomedical Topics, Data Analysis, Control Theory, Robotics

Thesis: "Cognitive decline detection using speech features: A machine learning approach" 

PROJECTS, CONTRIBUTIONS AND UNIVERSITY ASSIGNMENTS

- "Ivy - The Unified Machine Learning Framework"**
Open-source contributor 
- AWS SAM Lambdas for personal projects**  *Spotify Enhancer, NASA APOD automatic email and more, essentially a template for small SaaS ideas*
- "Analysis of the Music Stimuli Effect on Head Micromotion"** 
- "Covid Positivity Rate Data Analysis in Europe"** 
- "Omnidirectional Mobile Manipulator in a Pick and Place Task"** 
- "Online and Offline Estimation of System's Unknown Parameters"** 

CERTIFICATES

Deep Learning with Python and Keras  |

Deep Learning and Computer Vision for Drone Imaging and Cinematography" 

LANGUAGES

Greek — Native | **English** — Fluent

INTERESTS

~ Game Development | ~ Rock Climbing |

~ Freeride Ski Veteran | ~ Surfing Bird