

# Dimitris Kavelidis

## Frantzis

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📍 Sarantaporou 29, Thessaloniki 🌐 Digital Terminal

🌐 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 providing innovative, applied solutions with high attention to detail. Proud open-source contributor.

### 🛠️ PROFESSIONAL EXPERIENCE

**Software / Cloud Engineer, NET2GRID** 📄

Feb 2023 – Present | Thessaloniki, Greece

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**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 insights.

- **Architected and developed core microservices** (e.g., Authentication, Customer, Notification) with scalable APIs to handle real-time IoT data ingestion and device management.
- **Engineered a custom serverless framework** using Python and internal libraries to standardize development and deployment for microservices.
- **Built robust CI/CD pipelines** to improve system reliability and boost developer productivity.
- Spearheaded a platform modernization by **migrating legacy microservices to a serverless AWS architecture**, leading to significant cost reduction, enhancing scalability and resilience.
- **Led a company-wide PHP upgrade** from version 7 to 8, standardizing production systems and significantly reducing technical debt of PHP microservices.

**R&D Engineer,**

*Intelligent Systems & Software Engineering Labgroup (ISSEL)* 📄

Nov 2021 – Feb 2023 | Thessaloniki, Greece

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**Summary:** Developed a new cognitive decline detection screening test for early-stage dementia by applying digital signal processing and machine learning to extract speech features.

- Developed an interview protocol, and collected and cleaned data to train the model.
- **Key Achievement:** The developed model achieved 94.1% accuracy for Healthy Controls vs. MCI.
- **Presented:**
  - HELINA 7th Panhellenic Conference «Acoustics 2022», Thessaloniki, October 2022
  - 5th Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, February 2023

### 🎓 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" 📄

### 📄 CERTIFICATES

Deep Learning with Python and Keras 📄 |

Deep Learning and Computer Vision for Drone Imaging and Cinematography" 📄

### 📁 PROJECTS

**"Analysis of the Music Stimuli Effect on Head Micromotion"** 📄

**"Ivy - The Unified Machine Learning Framework"**  
Open-source contributor 📄

**"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"** 📄

### 🧠 TECHNICAL SKILLS

**Databases:** MySQL, DynamoDB, MongoDB

**DevOps Tools & Monitoring:** Docker, AWS SAM, Git, CI/CD, ECS, Terraform, Grafana, Victoria Metrics, CloudWatch

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

**Amazon Web Services (AWS):** Lambda, API Gateway, S3, SQS, SNS, IoT Core, DynamoDB, ElastiCache, CloudWatch

### 🌐 LANGUAGES

**Greek** — Native | **English** — Fluent

### 🔑 INTERESTS

~ Live Looping Ninja | ~ Rock Climbing |

~ Freeride Ski Veteran | ~ Surfing Bird