

Dimitris Kavelidis

Frantzis

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📍 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 / Cloud Engineer, NET2GRID 🔗

Feb 2023 – Present | 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 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

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

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

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

Databases: MySQL, DynamoDB, MongoDB

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

🌐 LANGUAGES

Greek — Native | English — Fluent

🔑 INTERESTS

~ Live Looping Ninja | ~ Rock Climbing |

~ Freeride Ski Veteran | ~ Surfing Bird