Toumanidis G. Lazaros

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ABOUT ME

I'm a software developer with a diverse background, starting with programming during my studies and advancing through roles in academia and industry. My journey began with Pascal and MATLAB as a student, eventually leading to developing a Moodle plugin in PHP for my thesis. Early on, I gained hands-on experience deploying Joomla and WordPress websites on Linux servers and creating Python scripts for networking projects, including TCP/UDP servers used in student exercises.

After completing my studies, I worked with a custom CMS to develop PHP/MySQL-based sites, introduced MongoDB to manage stock market entries, and established an internal version control system using Git. Over time, my career transitioned to academia, where I contributed to several national and EU research projects at institutions like NTUA and the University of West Attica. These roles emphasized system architecture, integration, and collaboration with international teams.

In recent years, I've worked with a university spin-off, Thingenious, focusing on ML model deployment, optimization, benchmarking and inference. I also co-founded Waldiez specializing in agent-AI solutions, where I serve as Chief Engineer. While I wouldn't call myself a machine learning expert, I have practical experience in deploying and optimizing AI models.

I enjoy taking on new challenges, learning new technologies, and collaborating to create impactful and innovative solutions.

EXPERIENCE

Waldiez 2024/11-now

Co-founder, Chief Engineer

Design and implementation of automation workflows using AI agents. Design, implementation and deployment of Jupyterlab and Visual Studio Code plugins.

ThinGenious 2020/01-now

Software Developer

Machine learning models deployment, optimization and benchmarking, frontend and backend development.

University of West Attica 2016/02-now

Research Associate

In the context of several research projects: mobile and wearable programming for iOS and watchOS devices, backend and frontend development, REST API design, implementation and consuming, gRPC client-server communication, machine learning models deployment and communication.

Internet Business Hellas (IBHellas)

2014/12-2016/03

Software Developer

Internal versioning management design, setup and maintenance, websites development using custom CMS, frontend (CSS, JS) and backend (PHP, MySQL) development.

National Technical University of Athens N.T.U.A

2014/10-2015/09

Research Associate

Backend development in python, using the Django web framework, OpenStack cloud software REST API client implementation, performance testing using Apache JMeter.

Technological Education Institute (T.E.I) of Piraeus

2013/10-2014/04

Setup and maintenance of application and network servers, design and implementation of network applications for the laboratory part of "Computer Networks" undegraduate course, technical support for the department's computer cluster.

EDUCATION

University of West Attica 2020

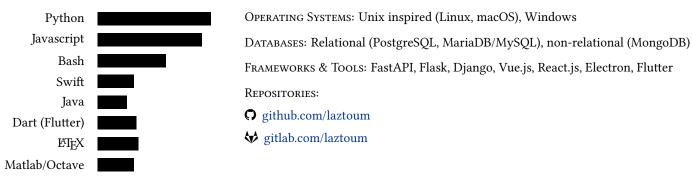
Master of Science by Research in Electrical and Electronics Engineering

Technological Education Institute of Piraeus

2014

Bachelor of Electronics Engineering

SKILLS



PROJECTS

SUN: "Social and hUman ceNtered XR"

2022 -

https://cordis.europa.eu/project/id/101092612

Sensory data collection and visualization. ML model deployment and inference, system integration

AI4EU - forWoT: "Transformer-based ontology merging for the WoT"

2021

https://www.thingenious.io/project/forwot-project

Frontend (Vue.js) and backend (FastAPI, gRPC, torchserve) development and integration, ML model deployment.

BonsAPPs - PULSE: "Ppg and imU signaLfuSion for heart rate Estimation"

2022

https://www.thingenious.io/project/pulse-project

Low power ML models optmization, benchmarking and deployment.

EUNOMIA: "User-oriented, secure, trustful & decentralised social media"

2018 - 2021

https://cordis.europa.eu/project/id/825171

System architecture, components communication and integration, API design and implementation, web and mobile application development, contribution on project's deliverables.

STORM: "Safeguarding cultural heritage through Technical and Organisational Resources Management."

2016-2019

https://cordis.europa.eu/project/id/700191

Implicit mobile crowd sourcing and crowd sensing solution architecture design and implementation, system architecture

TRILLION: "TRusted, cItizen - LEA colLaboration over sOcial Networks"

2015 - 2018

https://cordis.europa.eu/project/id/653256

Native mobile application development for iOS based mobile phones and WatchOS based smart watches. Applications development for dissemination purposes, system integration.

ARUM: "Adaptive Production Management"

2012 - 2015

https://cordis.europa.eu/project/id/314056

Participation on the implementation of a Living Lab for intelligent product management over Openstack.

Publications

Scopus: https://www.scopus.com/authid/detail.uri?authorId=56403427900

Google Scholar: https://scholar.google.com/citations?user=MK3sw2AAAAAJ

Awards

Anastasiadis' Highest GPA Award

2015

Highest grade among 2014 graduates of the Department of Electronics, T.E.I of Piraeus.

State Scholarships Foundation (I.K.Y.)

2013

Distinction (average grade greater than 8.5 / 10) for my performance during the year 2007 - 2008