

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

Intern

Setup and maintenance of application and network servers, design and implementation of network applications for the laboratory part of "Computer Networks" undergraduate 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

Python		OPERATING SYSTEMS: Unix inspired (Linux, macOS), Windows
Javascript		DATABASES: Relational (PostgreSQL, MariaDB/MySQL), non-relational (MongoDB)
Bash		FRAMEWORKS & TOOLS: FastAPI, Flask, Django, Vue.js, React.js, Electron, Flutter
Swift		REPOSITORIES:
Java		 github.com/laztoun
Dart (Flutter)		 gitlab.com/laztoun
LaTeX		
Matlab/Octave		

PROJECTS

SUN: “Social and hUman ceNtered XR” https://cordis.europa.eu/project/id/101092612 Sensory data collection and visualization. ML model deployment and inference, system integration	2022 -
AI4EU - forWoT: “Transformer-based ontology merging for the WoT” https://www.thingenious.io/project/forwot-project Frontend (Vue.js) and backend (FastAPI, gRPC, torchserve) development and integration, ML model deployment.	2021
BonsAPPs - PULSE: “Ppg and imU signalFuSion for heart rate Estimation” https://www.thingenious.io/project/pulse-project Low power ML models optmization, benchmarking and deployment.	2022
EUNOMIA: “User-oriented, secure, trustful & decentralised social media” 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.	2018 - 2021
STORM: “Safeguarding cultural heritage through Technical and Organisational Resources Management.” https://cordis.europa.eu/project/id/700191 Implicit mobile crowd sourcing and crowd sensing solution architecture design and implementation, system architecture	2016-2019
TRILLION: “TRusted, cItizen – LEA collAboration over sOcial Networks” 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.	2015 - 2018
ARUM: “Adaptive Production Management” https://cordis.europa.eu/project/id/314056 Participation on the implementation of a Living Lab for intelligent product management over Openstack.	2012 - 2015

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 Highest grade among 2014 graduates of the Department of Electronics, T.E.I of Piraeus.	2015
State Scholarships Foundation (I.K.Y.) Distinction (average grade greater than 8.5 / 10) for my performance during the year 2007 - 2008	2013