

Theodoros Athanasiadis

AI Software Engineer

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WORK EXPERIENCE

05.2022 - 06.2025 AI Research Assistant

Machine Learning Lab, University of Freiburg, Freiburg im Breisgau, DE

- Advanced the lab's machine learning frameworks by developing and integrating novel features.
- Mentored over 150 Master's students in the "Foundations of Deep Learning" course.
- Orchestrated the launch of the course as a MOOC, expanding accessibility and impact.

04.2023 - 01.2024 AI Research Assistant

Fraunhofer Institute for Production Systems and Design Technology (IPK), Berlin, DE

- AI Software Engineer at the ExoGuide industrial project in collaboration with Exeron GmbH.
- Managed ML-pipelines and conducted extensive experimentation and research.
- Developed and deployed an AI-driven system for real-time control of Electrical Discharge Machining (EDM), reducing part rejection and improving process efficiency.

03.2020 - 08.2021 Application & Software Engineer

Dataviva, Thessaloniki, GR

- Played a key role in the company's early-stage development.
- Developed and deployed scalable client-tailored optimization tools that improved efficiency and supported large-scale retail operations.
- Mentored intern teams as a technical lead, fostering best practices in software development and problem-solving.

03.2018 - 03.2020 Application & Software Engineer

Veltio, Thessaloniki, GR

- Partnered with clients to gather requirements, clarify business needs, and translate them into tailored software solutions.
- Designed, implemented, and deployed advanced retail optimization solutions that improved supply-chain operational efficiency.

EDUCATION

06.2025

MSc in Computer Science - Specialization: Artificial Intelligence

University of Freiburg, Freiburg im Breisgau, DE

- Grade: 1.2
- Thesis: Tune my Adam, Please!

Specialized transformer for Bayesian Optimization of Adam optimizer hyperparameters.

(Accepted as a Workshop Paper at the AutoML Conference, 2025)

11.2017

Diploma in Electrical & Computer Engineering - Specialization: Electrical Energy

(Integrated BSc + Msc)

Aristotle University of Thessaloniki, Thessaloniki, GR

- Grade: 7.74 out of 10
- Thesis: Ewire, one step closer to Greece's Electrical Grid
Smart device connecting end-users with the state of the electrical grid using a Raspberry Pi.
Project Repository: github.com/theodorju/ewire

TECH STACK

Languages & Scripting

- Python (primary)
- Java
- SQL
- Bash

ML & Data Science

- PyTorch
- Scikit-learn
- Hugging Face
- TensorFlow
- NumPy & Pandas

MLOps & Deployment

- MLFlow
- LangChain
- REST APIs
- Google Cloud (GCP)
- Airflow
- Weights & Biases

DevOps

- Git & GitHub
- Docker & Kubernetes
- GitHub Actions

SKILLS

Soft Skills

- Ownership
- Customer Focus
- Results Oriented Delivery
- Continuous Improvement & Fast Learning
- Communication & Teamwork
- Critical Thinking
- Curiosity
- Growth Mindset

Technical Skills

- Machine Learning & Deep Learning
- Generative AI
- Model Deployment
- Model Evaluation
- Hyperparameter Optimization
- Statistical Modeling
- Uncertainty Quantification
- Feature Engineering
- Data Visualization
- Meta-Learning

Languages

- English - Full Working Proficiency
- Greek - Native Speaker
- German - Beginner *currently learning