



ALEX ARVANITIDIS¹

Born in 1989

Machine Learning Engineer
Athens, Greece

SUMMARY

Machine Learning Engineer with 10+ years of full-stack development experience

Specialized in deploying and optimizing ML models, cloud infrastructure, and scalable platforms

Expert in end-to-end ML workflows, from data processing to production deployment

Previously led full-stack teams, building high-performance systems across industries

Passionate about AI, data-driven applications, and pushing the boundaries of model deployment

Outside of work, I explore data analytics and enjoy performing stand-up comedy

EDUCATION

Master's: Information Systems and Artificial Intelligence at Computer Science Department of Aristotle University of Thessaloniki (AUTH)

Grade: 9.58

Bachelor's: Information Systems at Computer Science Department of Aristotle University of Thessaloniki (AUTH)

Grade: 7.42

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<https://alexarvanitidis.dev>

<https://github.com/alarv>

<https://www.linkedin.com/in/alexarvanitidis/>



WORK EXPERIENCE

Machine Learning Engineer@National Technical University of Athens

Hybrid, 2/2024-Today

- Joined the UPCI NTUA lab as part of 3 EU Horizon projects to deepen hands-on experience in AI and ML systems
- Leading Jaqpot, a model hosting platform for deploying and sharing ML models
- Managing the entire stack: Python libraries, frontend, backend, DevOps, and AWS infrastructure (Terraform)
- Deployed and fine-tuned LLMs with vLLM and Kubernetes
- Built and deployed chemical AI agents using HuggingFace's smolagents library

Senior Full-stack Engineer@Mercedes Benz via Mima.com

Remote, 2/2023-2/2024

- Led frontend team, improved test coverage to 80%, and resolved security vulnerabilities with BlackDuck, Sonar, and SecHub
- Introduced and developed a comprehensive authentication library for Mercedes, including a unique on-behalf mode, while also spearheading a rapid 2-week migration to Vue 3
- Managed and improved sprint velocities consistently, becoming the go-to expert for product knowledge and fostering strong collaboration among co-developers, QA, and backend engineers

Senior Full-stack Engineer@Gigabank

Remote, 7/2022-2/2023

- Introduced Datadog, Elastic, and Unleash feature toggles, which became core tools for the company
- Led the migration to AWS and Terraform, becoming the company's resident expert on cloud infrastructure and technologies
- Specialized in Flutter development, addressing crucial frontend issues while also gaining expertise in Kotlin and backend systems

Senior Full-stack Engineer@Impala Travel

Remote, 3/2021-6/2022

- Led the transition to Nest.js, replacing a cluttered codebase and introducing best practices like dependency injection, ORMs, dramatically improving code quality for the entire team
- Took a strong leadership role in decision-making, advocating for a more direct approach over diplomacy, which led to more effective outcomes for the team
- Experienced significant personal growth, learning the importance of not assuming bad intentions and how to drive change within a company

Senior Full-stack Engineer@Glovo

Barcelona, Spain 2/2020-2/2021

- Managed a high-load project with Kinesis, handling up to 1k events per second, focusing on both backend and temporary frontend responsibilities
- Successfully extracted and implemented a microservice for 4,000 agents, overseeing the entire process from scaling to performance monitoring
- Thrived in a top-tier work environment, collaborating with some of the best colleagues in my career to date



- Led initiatives to improve the full stack experience

Senior Full-stack Engineer@Alpha Innovation, Telefonica

Barcelona, Spain 11/2018-2/2020

- Led the migration to Ionic 4 and separately undertook a full CSS rewrite for the project
- Navigated a challenging work environment with an opinionated tech manager, gaining valuable experience in conflict resolution and personnel management
- Contributed to an impactful project focused on assisting people with conditions like OCD and BDD through Cognitive Behavioral Therapy (CBT) techniques
- Led the migration to Terraform

Full-stack developer@Marfeel

Barcelona, Spain 4/2016-11/2018

- Evolved from handling full-stack tasks and bug fixes to specializing in both the product and system infrastructure. Assisted the systems team and was a reliable on-call resource
- Transitioned into the product team and managed high-stakes financial tech code, earning recognition from the CEO for exceptional performance
- Grew professionally in a rapidly expanding startup, starting when the company had 30 employees and leaving when it was over 200-strong

Summer Student@CERN

Geneva, Switzerland— 6/2014-9/2014

- Worked on a task management tool for the head of the Future Circular Collider, utilizing AngularJS at the forefront of its popularity
- Collaborated closely with the manager of web services in the IT department, earning a written reference for outstanding contributions
- Successfully navigated a highly competitive recruitment process to intern alongside Europe's top minds

Full-stack Developer@European Dynamics

Thessaloniki, Greece — 4/2014-4/2016

- Managed front-end tasks and bug fixes in AngularJS, gaining foundational skills in coding and SQL queries under excellent mentorship in a corporate setting

Full-stack Developer@Sapila.gr, personal project

2014-2020

- Created and managed Sapila.gr, a Greek meme website, covering all aspects from cloud management to frontend and marketing
- Experimented with microservice architecture for the first time, using Jhipster and the latest technologies at the time to adapt and learn

MSc Thesis - Sentiment analysis using Machine Learning

6/2013-6/2014 - <https://angel.co/branty> - published at ECML/PKDD 2014 conference

- Completed an MSc thesis focused on sentiment analysis using the Twitter API, providing hands-on experience with machine learning fundamentals
- Conducted extensive research and data analysis, deepening my understanding of natural language processing techniques



PUBLICATIONS

2014

A. Arvanitidis, A. Serafi, A. Vakali, G. Tsoumakas, "Branty: A social media ranking tool for brands"
[ECML/PKDD 2014, Nancy, France](#)

2013 (Best paper award)

F. Rafailidis, I. Panagos, A. Arvanitidis, P. Katsaros, "Inline Monitors for Security Policy Enforcement in Web Applications"
[PCI 2013, Thessaloniki, Greece](#)

2011

T. Stavropoulos, D. Vrakas, A. Arvanitidis, I. Vlahavas, "A System for Energy Savings in an Ambient Intelligence Environment"
[ICT-GLOW 2011, Toulouse, France](#)

LANGUAGES

English - Fluent (C2)

German - Advanced (C1)

Spanish - Very Good

Greek - Native

SKILLS

AI: smolagents, Llamaagent, vLLM, ollama, scikit-learn, pytorch, HuggingFace transformers, datasets, ONNX, FastAPI, LLM Fine-Tuning & Optimization, AI agents

Programming Languages: Java, TypeScript, Javascript (ES6), Kotlin

Front-end Technologies: Angular, React, Vue, Ionic, Flutter, SCSS, Bootstrap, TailwindUI

Back-end Technologies: Spring Boot, Spring Cloud, Node.js, Next.js, Keycloak

DevOps and CI/CD: Docker, Kubernetes, AWS ECS, AWS Route53, Terraform, Nginx, GitLab CI/CD, GitHub Actions, CircleCI, Travis CI, ArgoCD, Helm

Messaging and Stream Processing: Kinesis, RabbitMQ

Monitoring and Logging: Datadog, Elasticsearch, Prometheus

Databases: MongoDB, PostgreSQL, MySQL

Testing: Cypress, Playwright

Build Tools: Maven, Gradle

Other: Feature Flags (Unleash)

OTHER & HOBBIES

Comedy & Public Speaking

Experienced in stand-up and improv, performing regularly and presenting events

Developed public speaking skills through regular performances

Academic Achievements

Won the Math & Physics contest dedicated to Vassilis Xanthopoulos; ranked 1st out of 300

Finalist in the 6th international student competition on digital entrepreneurship (ennovation.gr)

Music

Self-taught musician proficient in piano, accordion, guitar, and saxophone

