

Sergios Karagiannakos

Software Engineer | Master's in Electrical and Computer Engineering | Artificial Intelligence Developer

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EXPERIENCE

Software Engineer at [HubSpot](#) – Machine Learning Infrastructure **2019-Today**

- The ML Infrastructure team is responsible for building and maintaining all Machine Learning services and pipelines inside HubSpot.
- Technologies Used: Java, Python, MySQL, HBase, Hadoop, Kafka, S3, Docker

Data Scientist at [Eworx SA](#) **2018-2019**

- Architected and developed a **full-stack web app** for the [European Training Foundation](#) (ETF), to manipulate their data (add, edit, delete) from the frontend, build Reports and create interactive Visualizations.
- Built the core of a real-time **Recommendation Engine** with Python using Natural Language processing and Machine Learning techniques for Experly, a travelling web application.
- Designed an in-house library for Source Code Analysis for different programming languages.
- Implemented data science pipelines for tasks such as spell correction, language detection on different projects for European organizations such as [CEDEFOP](#) and [Skills Panorama](#) websites.

Freelancer Software Engineer **2016-Today**

- Chill - Meet and Movie Date : Developed and published an **Android app** with a NoSQL database and a server hosted in Google cloud. The app connects users via common interests in movies and tv shows and it organically grew to more than 500 users within the first two weeks.
- **Robot motion planning** - Designed a system for robot navigation on 2D space with C++ and computational geometry techniques, such as voronoi diagram and visibility graph.

EDUCATION

MEng Electrical and Computer Engineer (5 years degree with 300 ECTS) **2012-2017**

Studied at University of Pxtaras

GPA: Upper Second-Class Honors (7.23/10), GPA in Major: **8.12/10**

Coursework: Artificial intelligence, Pattern Recognition, Object Oriented Programming, Software engineering, Robotics systems, Embedded systems, Computer Vision, Computational geometry and 3D apps, Parallel and Distributed Processing, Analog and Digital circuits, Computer and Network Security

PROJECTS

- [Thesis](#): Development of **Computer Vision** framework based on deep learning and GPU programming. We designed a convolutional and full connected neural network library from scratch for object recognition in images. The training of the network and the computation of its output run on GPU, programmed with OpenCV, OpenCL and C++
- Programmed an **embedded board** for a 2 wheeled robot. The robot was able to move to a straight line, follow a predefined path and avoid obstacles.
- Study of Kinematics, Dynamics, Position, Control and Simulation of **robotic arm** with MATLAB robotic toolbox

PUBLICATIONS

- [Write technical articles](#) around Artificial Intelligence / Data Science and publish them on big online publications such as Towards Data Science and Becoming Human, resulting in being a Top Writer in Artificial Intelligence on Medium.

SKILLS

- Machine and Deep Learning
- Big Data Engineering
- Python, R, C/C++, JavaScript, Java
- Backend Development
- Cloud Computing
- Parallel and GPU programming
- Data Science
- Web and Mobile Development