

# Alexandros Zotos

## Software/Data Engineer

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### Experience

- 2023–Now **Senior Software Engineer/Co-Founder**, *CommerceBox*, Athens - Greece.  
Initial team member. Developer/architect of the main backend application, set up all the data pipelines for extracting data from the client's Magento 2 installation. Responsibilities also include coordinating with the frontend developers/project managers to define tasks/product direction and quality control of the delivered frontend parts.
- **Technologies:** Python3, PHP, Airflow, Laravel, PostgreSQL
  - **Main Skills:** Software Development, ETL processes, Database architecture, Quality control
- 2021–2023 **Data/Software Engineer**, *Netcompany-Intrasoft*, Athens - Greece.  
Working as an external contractor for the EUIPO's Data Science Team. Responsibilities include design, development and monitoring of ETL pipelines, creating helm charts for the proofs of concept developed by the team, developing APIs for the resulting ML models.
- **Technologies:** Python3, Airflow, FastAPI, Kubernetes
  - **Main Skills:** Software Development, ETL processes, MLOps
- 2020–2021 **Data Engineer**, *PeoplePerHour Ltd.*, Athens - Greece.  
Member of the Data Science team. Responsibilities include design, development and monitoring of ETL pipelines, deploying API services for machine learning models, integrating models into the PPH platform, monitoring the team's AWS account spending, making dashboards to facilitate the data analysis by other teams.
- **Technologies:** Python3, Flask, AWS {Glue, Lambda, Redshift, etc}
  - **Main Skills:** Software Development, ETL processes, Design and Automation
- 2018–2020 **Software Engineer**, *AGENSO*, Athens - Greece.  
In this position, my main tasks include R&D for the selected frameworks, designing databases and developing applications according to the client's specifications. Also, I have been involved in the architectural process of several of the company's applications.
- **Technologies:** Laravel, VueJS, ArcGIS, Weather APIs, RESTful Services
  - **Main Skills:** Software development, Database architecture, Quality control
- 2014–2018 **Software Engineer**, *Netsteps S.A.*, Gerakas - Greece.  
Responsibilities included understanding and analysing client requirements, designing high quality software using the appropriate frameworks based on the required specifications, optimising workflows, studying and integrating any required state-of-the-art technologies in new projects.
- **Technologies:** PHP, MySQL, HTML, CSS, JavaScript, Laravel, jQuery, Bootstrap 3, Cordova/PhoneGap, Ionic/AngularJS
  - **Main Skills:** Software/database design, Quality control, Issue resolution, System setup and administration, Project management
- 2013–2014 **Intern – Junior Software Engineer**, *Netsteps S.A.*, Gerakas - Greece.  
Starting as a software engineering intern I was introduced to the company's internal structure, processes and required frameworks.

### Education

- 2009–2016 **BSc in Informatics**, *TEI of Athens*.  
Thesis: *Social network application using geolocation services for Android devices*  
Supervisor: Prof. Ioannis Voyiatzis, TEI of Athens

## Sample Projects

- 2023 **CommerceBox** Lorem ipsum dolor sit amet.
- 2021 **PPH Data Pipelines** I created several data pipelines on AWS in order to handle the updates of the data the Data team use in their daily operations. Using Lambda, Glue and Step Functions these pipelines are designed to make debugging and extensions easy for the developer and also notifications and fallbacks are in place for when things -inevitably- go wrong.
- 2019-2020 **OPTIMA** The goal of the OPTIMA project is to provide a holistic solution for pest management in specific types of crops. As the main software engineer, responsible for the Decision Support System's development (part of the AGENSO team), I designed and developed all the components such as the database, the system architecture, the admin panel and the frontend application. The DSS is designed to provide alerts in the form of the probability of infection from certain enemies of crops, to help the farmers make the correct decision when spraying their farms. The project is funded by Europe's Horizon 2020 programme and the consortium is comprised of major European universities and companies active in the agricultural sector.
- 2019 **Effispray** To solve the problem of inefficient spraying in the fields, I developed EffiSpray. Using ArcGIS and a prediction model developed by AGENSO, I designed and developed the web application with Laravel. The application shows a map of Greece coloured by area depending on the calculations made using AGENSO's predictive model and weather forecast data retrieved from an external API.
- 2019 **PAMCoBA** The purpose of this web application is to help farmers invest in the right technologies for their farm. By analysing their farm and the operations they want to apply the users get the analysis and can download a specialised report. My contributions were centered around the database design, according to the specifications, and the software development as the main software engineer. This project was funded by the ICT-AGRI programme and is a cooperation between the University of Copenhagen, Agroscope, the University of Bologna, and AGENSO.
- 2016-2017 **Winagro Cloud** Web application for one of the leading agricultural equipment suppliers in North Greece. As the main engineer on the project, designing and developing the application was the task at hand. The purpose was to gather data from the users of the application and then use them on pre-set templates supplied by the Greek Ministry of Agriculture. The generated documents were then submitted by Winagro's clients to apply for agricultural funds.
- 2017-2018 **Magento eCommerce Projects** Some of the Magento projects I took part in as a developer and later as the support team leader. All of them were custom designed and as part of the development team I created many custom modules to extend the functionality of the framework.
- 2014 **socialight.biz** Created a business analytics platform for IPG Mediabrands dealing with data gathered from their corporate clients' Facebook pages. I developed the data retrieval/storage using the Facebook Graph API and the data visualisation on the frontend using Google Charts.