

Onur Ferhat

FULL-STACK DEVELOPER · DATA SCIENTIST

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Summary

Full-stack developer with **machine learning** & **computer vision** skills. Fluent in Python, Docker, Kubernetes, AWS, C/C++, Django, OpenCV and the usual web stuff (HTML, CSS, JS) to get things done. Interested in web projects with a touch of data analysis and computer vision.

Experience



Vintra

SOFTWARE ENGINEER

Barcelona

2017–(now)

- Containerization of existing systems using **Docker & Kubernetes**.
- Optimization of a **computer vision** processing pipeline.
- Creating a **TDD** setup and a **CI/CD** pipeline.

Criteo



TECHNICAL SOLUTIONS ENGINEER

Barcelona

2016–2017

- Working closely with the sales team and the clients to carry out the **technical integration** of advertisers into Criteo ad platform.
- Contributing to **reporting tools** which are used to get a better view of the service provided by the technical team.

Banksoft - Payment Systems Solutions



SOFTWARE DEVELOPER

Istanbul

2009–2011

- Worked on issuing (preparation for customers) of **EMV-compliant chip cards** for major Turkish and international banks.
- Management of **security data**, and implementation of required changes for new card products (new chip cards, campaigns, etc.).
- Developed a **feature-packed editor** (side-by-side comparison, error checking, etc.) for the file format used in card issuing.

Inveon



FULL-STACK DEVELOPER

Istanbul

2008–2009

- Worked on **C#** web projects for internal use of Turkish companies.

Education



Autonomous University of Barcelona

PHD IN COMPUTER VISION

Barcelona

2011–2017

- Thesis on **webcam-based eye tracking algorithms**.
- Exploring robust gaze estimation methods that are not affected by head movements.



Autonomous University of Barcelona

MSC IN COMPUTER VISION & ARTIFICIAL INTELLIGENCE

Barcelona

2011–2012

- Hands-on experience in **image processing**, **machine learning** and **artificial intelligence**.



Bogazici University

BSC IN COMPUTER ENGINEERING

Istanbul

2004–2009

- One of the top computer engineering degrees in Turkey.
- Courses on **robotics**, **artificial intelligence** (MSc level), **pattern recognition** (MSc level) in the senior year.

Honors

- 2014 **Google Research Award**, Awarded to my supervisor Dr. Fernando Vilariño for his project proposal.
- 2009 **Honors Degree**, Graduated with a GPA of 3.49 and awarded an honors degree.
- 2004 **Nationwide Success, 141st** among ~1.5 million students in University Entrance Exams (OSS).
- 2001 **Nationwide Success, 5th** among ~600 thousand students in High School Entrance Exams (LGS).

Projects

Eye Tracker: The software for my thesis is written in C++ and makes use of several libraries for **image processing** (OpenCV), **machine learning** (FANN, dlib) and other tasks (Boost, Qt, CUDA).

Memory Fields: What started as an attempt to explore how **computer vision** and **art** may intersect (together with **Dan Norton** and **Dr. Fernando Vilariño**), resulted in an interactive application resembling a DJ deck. The system allows mixing collections of sounds and images to create compositions that react to changes in the sounds, and saving them in a *field of memories*.

The project was presented in **Sonar +D 2015** and is currently installed at **Volpelleres Living Lab**.

Broquil: A Django-based management system for consumer cooperatives. It was a personal project with the objective of learning new skills (**Django**, **Bootstrap**, etc.) and keeping my old skills fresh (HTML, JS, CSS), while helping the community.

Dictionary: My first take on creating an easy to use dictionary for minority languages is based on **ElasticSearch** and **AngularJS**. The first online prototype used an open source list of translations between Turkish and Zazaki language.

Skills & Courses

Programming

Python, MongoDB, SQL, C/C++/C#, Matlab

Libraries

Django, Bottle, Boto, OpenCV, numpy, scikit-learn, jQuery, Backbone.js, AngularJS

Tools

AWS, Docker, Kubernetes, Redis, ElasticSearch

Languages

Turkish, English, Spanish, Catalan

Courses

- Several **machine learning** courses from Coursera (with Python).
- Internal workshop on **deep learning** with MatConvNet toolbox.