

Onur Ferhat

FULL-STACK DEVELOPER · DATA SCIENTIST

☎ (+34) 633 032 866 | ✉ offerhat@cvc.uab.es | 🏠 onurferhat.com | 📱 tiendan | 📺 onurferhat | 📍 Barcelona, SPAIN

Summary

Full-stack developer with **machine learning** & **computer vision** skills. Fluent in Python, C++, C#, Matlab, 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.

Education

Autonomous University of Barcelona

Barcelona

PHD IN COMPUTER VISION

2011–(2016)

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

Autonomous University of Barcelona

Barcelona

MSC IN COMPUTER VISION AND ARTIFICIAL INTELLIGENCE

2011–2012

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

Bogazici University

Istanbul

BSC IN COMPUTER ENGINEERING

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.

Experience

Criteo

Barcelona

TECHNICAL SOLUTIONS ENGINEER

2016–(now)

- Carrying out **advertiser integrations**.
- Resolving problems that arise in client advertisement campaigns.

Banksoft - Payment Systems Solutions

Istanbul

SOFTWARE DEVELOPER

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.

Imovasyon

Istanbul

FULL-STACK DEVELOPER

2009

- Development of a **QR code** management and analytics system.
- Developed an **API** to allow simultaneous creation and management of QR codes and Microsoft Tags from mobile apps.

Inveon

Istanbul

FULL-STACK DEVELOPER

2008–2009

- Worked on **C#** web projects for internal use of Turkish companies.
- Projects in **several sectors** (pharmaceutics, insurance, etc.).

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 uses an open source list of translations between Turkish and Zazaki language.

Skills & Courses

Programming

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

Libraries

OpenCV, boost, dlib, GraphLab Create, SFrame, numpy, scikit-learn, MatConvNet

Web

Django, ElasticSearch, JavaScript, Bootstrap, HTML, CSS, Backbone.js, jQuery, AngularJS

Languages

Turkish, English, Spanish, Catalan

Courses

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