



OZDEK Eren

Software-Engineer
Data-Engineer/Scientist

CONTACT DETAILS

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EDUCATION

2015-2018

Ecole 42

Computer science school

2012-2014

Université de Strasbourg

PACES Médecine

LANGUAGE

French: Native

English: Professional

Turkish: Professional

ABOUT ME

I am a developer and data-*, who is always eager to learn new things, acquire new skills and share his knowledge with other people. I have experience in several areas of computer science, although at the moment I am mainly focused on big data, and on artificial intelligence.

WORK EXPERIENCE

CHOOSE

Mar 2018-Sep 2018

MACHINE LEARNING ENGINEER

LANGUAGES: PYTHON, TENSORFLOW, KERAS, FLASK, SKLEARN, PYSPARK, PANDAS, SCRAPY, ELASTICSEARCH, GOOGLE CLOUD

PORT-PARALLÈLE

Mar 2017-Sep 2017

FREELANCER WORKED ON A GROUP PROJECT WITH CEA-LIST

LANGUAGES: UNITY, C#, PYTHON, CAFFE, OPENCV

PARTNERSHIP MATRICE-CEA

Oct 2016 - Mar 2017

PROJECT AIMED AT CREATING DEMONSTRATORS WITH TECHNOLOGIES DEVELOPED BY CEA-LIST, IN PARTNERSHIP WITH STRATE SCHOOL OF DESIGN.

LANGUAGES: UNITY, C# , PYTHON, CAFFE, OPENCV

ADDITIONAL ACTIVITIES

Street art guide at Art42

I have voluntarily made pubic visits of the "street art museum art42" at 42. Interviews available at the following links [\[here\]](#) and [\[here\]](#).

Active member of 42AI

I personally planned and delivered courses for 42 students, focused on Computer Vision. All the courses available [\[here\]](#)

SKILLS

Python (openCV, pandas, numpy, flask)	Good
Scala (IntelliJ, sbt, scalatest)	Intermediate
C	Good
C++	Intermediate
Swift	Intermediate
Java	Beginner
Machine learning:	
- Sklearn	Good
- Keras	Good
- Tensorflow	Good
- Pytorch	Intermediate
Hadoop	Intermediate
Spark	Intermediate
Kafka	Intermediate

SQL	OK
Hive	OK
Pig	OK
NoSQL:	
- MongoDB	OK
- Cassandra	OK
- ElasticSearch, Kibana	OK
- Redis	OK
Google Cloud:	
- Dataproc	OK
- Bigquery	OK
- Bigtable	OK
- Dataflow	OK
- Cloud Pub/Sub	OK
Docker	OK

LICENCES & CERTIFICATIONS

MACHINE LEARNING

11 weeks [\[course link\]](#)

Stanford University / May 2017

Deep Learning Specialization.

- **NEURAL NETWORKS AND DEEP LEARNING**
- **IMPROVING DEEP NEURAL NETWORKS**
- **STRUCTURING MACHINE LEARNING PROJECTS**
- **CONVOLUTIONAL NEURAL NETWORKS**
- **SEQUENCE MODEL**

18 weeks [\[course link\]](#)

Deeplearning.ai / Sep 2017 - Feb 2018

Functional Programming in Scala
Specialization

- **FUNCTIONAL PROGRAMMING PRINCIPLES IN SCALA**
- **FUNCTIONAL PROGRAM DESIGN IN SCALA**
- **BIG DATA ANALYSIS WITH SCALA AND SPARK**

14 weeks [\[course link\]](#)

EPFL / July 2019

BIG DATA ESSENTIALS: HDFS, MAPREDUCE AND SPARK RDD

6 weeks [\[course link\]](#)

Yandex / Mar 2019

Data Engineering on Google Cloud
Platform.

- **GOOGLE CLOUD PLATFORM BIG DATA AND MACHINE LEARNING FUNDAMENTALS**
- **LEVERAGING UNSTRUCTURED DATA WITH CLOUD DATAPROC ON GOOGLE CLOUD PLATFORM**
- **SERVERLESS DATA ANALYSIS WITH GOOGLE BIGQUERY AND CLOUD DATAFLOW**
- **SERVERLESS MACHINE LEARNING WITH TENSORFLOW ON GOOGLE CLOUD PLATFORM**
- **BUILDING RESILIENT STREAMING SYSTEMS ON GOOGLE CLOUD PLATFORM**

6 weeks [\[course link\]](#)

Qwiklabs-Google / July 2019

*Click on the course title to access to Coursera's certificate

WORK EXPERIENCE IN DETAIL

CHOOSE (mobile app iOS & Android)

Mar 2018-Sep 2018

Machine Learning Engineer

Goal : "Create an item recommender system based on Convolutional Neural Networks (CNN)"

Languages: Python, Tensorflow, keras, flask, sklearn, pyspark, pandas, elasticsearch, scraping (scrapy, beautifulsoup, selenium), google cloud

The goal was to create a clothes recommender system, based on what the model learned from the image and not on the label. The advantage is that the model can extract more features per item, and that such visual features could not be described with a label, therefore providing a better suggestion. Among other tasks, I also scraped clothes websites images in order to create a good dataset, worked on many web applications to show the accuracy of my model with flask (Python), developed a recommender system using triplet loss (a learning algorithm), and another system using CNN architecture, using the framework tensorflow with keras on top of it.

I worked also on object detection, on Capsule Networks and python scripts to help my coworkers.

PORT-PARALLÈLE

Mar 2017-Sep 2017

Freelancer

Languages: Unity, C#, Python (Caffe, OpenCV)

Worked with CEA-LIST.

We made a group with other students of 42, to do freelance work.

PARTNERSHIP MATRICE-CEA

Oct 2016-Sep 2017

Main activities:

- understand how the technology developed by researchers works
- proposed ideas of demonstrator
- presented the ideas to CEA-LIST managers
- developed a prototype of demonstrators

I worked on a technology named "ELISE" developed by CEA researchers, which recognises object on images, and I created a demonstrator based on it together with a student of 42 and a designer of strate design school.

The demonstrator had two modes; first, we used a webcam to take a picture of the person's front in order to suggest the closest person with the percentage rate and to display the objects recognized. Second, we used all the person's clothes with the webcam to generate an avatar in augmented reality using vuforia. We then displayed the avatar next to the person.

To developed the prototype, we used Unity (C#) , opencv (to take a pic of person in front of the webcam), vuforia for augmented reality, python and the deep learning framework "Caffe" to retrain, the technology "ELISE" to recognize different type of clothes.