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HOUSSEM MENHOUR

PERSONAL STATEMENT

I am a Computer Engineering student at Kocaeli University, with a focus on Streaming Data Processing, Deep Learning for Computer Vision and Autonomous Vehicles.

I have excellent programming skills, mainly in C/C++ and Python which I used for several projects ranging from backend development to Machine Learning Engineering. Being an active member of some student clubs and participation in several competitions and events allowed me to acquire good teamwork and leadership skills as well as a passion for taking on new challenges.

ACCOMPLISHMENTS

November 2019 – Second place at #AçıkHack NLP hackathon organised by Bilişim Vadisi and Turkey Open Source Platform.

August 2018 – First place at Havelsan's PARDUS DoSA Open Innovation Competition.

August 2014 – Fully funded scholarship from Turkey Scholarships Program.

June 2012 - Baccalaureate Exam with First Class Honours.

EDUCATION

09/2015 - NOW: KOCAELI UNIVERSITY, BACHELOR OF COMPUTER ENGINEERING (TURKEY)

CGPA: 2.89. Covered subjects include: ● Data Structures ● Algorithm Analysis ● Software Engineering ● Design Patterns ● Fuzzy Logic ● Neural Networks ● Big Data Analysis ● Distributed Systems ● Embedded Systems ● Control Systems

09/2014 - 06/2015: TÖMER, TURKISH LANGUAGE PREPARATORY CLASS

2012 - 2014: INSTITUTE OF ELECTRICAL & ELECTRONICS ENG, BOUMERDES UNIV (ALGERIA)

Covered subjects include: ● Circuit Analysis ● Digital systems with VHDL.

CERTIFICATES AND COURSES

Ongoing – Data Analyst for Enterprise Nanodegree, Udacity.

September 2019 – Verified Certificate of Completion - Data Analysis Track from Udacity.

February 2019 – Fundamentals of Deep Learning for Computer Vision Certificate from NVIDIA.

February 2019 – OpenZeka MARC Autonomous Vehicle Training Bootcamp.

February 2017 – IEEEXtreme Turkey Competitive Programming Camp.

SKILLS

PROGRAMMING & IT

Programming Languages: C ◆◆◆◆, C++ ◆◆◆◇, Python ◆◆◆◆, Scala ◆◆◇◇, Go ◆◆◇◇

Databases: SQL ◆◆◆◆, NoSQL (CouchDB, Cassandra) ◆◆◆◇

Backend development: Python w/ Flask & Django ◆◆◆◇

ML and CV libraries: TensorFlow ◆◆◆◇, Keras ◆◆◆◆, Scikit-Learn ◆◆◆◆, Pandas ◆◆◆◆, OpenCV ◆◆◆◇, XGBoost ◆◆◆◇

Big Data technologies: Spark ◆◆◆◇, Kafka ◆◆◆◇, Hadoop ◆◆◇◇, Tableau ◆◆◆◇

Cloud & DevOps: Git ◆◆◆◆, Docker ◆◆◆◇, GCP ◆◆◆◇, AWS ◆◆◇◇

Embedded Programming: MSP430, T4MC123G, nRF52840

Other: Linux, Bash, ROS, MATLAB, Cuda, GUI w/ Qt, HTML5&CSS3

LANGUAGES

● ***Arabic***: Native

● ***English***: Advanced, TOEFL 94

● ***Turkish***: Advanced, TÖMER C1 91

● ***French***: Intermediate

● ***German***: Basic

OTHER

Fast learner with an eye for details, excellent analytical and problem-solving skills. good teamwork and communication skills.

EXPERIENCE

06/2018 - 08/2018: KOCAELI UNIVERSITY, RESEARCH INTERN

As an intern at the Image Processing Laboratory, I helped with and contributed to ongoing research on the following subjects:

- Computer Vision for Autonomous Driving Vehicles.
- Image Classification and Analysis.

VOLUNTARY WORK

Includes designing and maintaining websites for different clubs & small organizations, and project management roles in them such as Inelectronics Student Club in Algeria (2012-2014) and IAESTE Kocaeli branch (2017).

SELECT PROJECTS

09/2019 - NOW: BIG DATA STREAM PROCESSING

I am working on data stream processing for my graduation project as part of a collaboration between CEVA Logistics and my department, this includes:

- Building a full data pipeline for a logistics company.
- Stream Processing with Apache Kafka, Spark and Flink.
- Real time Anomaly Detection.

06/2018 - 09/2019: FOURPLUSONE

I'm the leader of a team representing Kocaeli University at OpenZeka MARC competition for autonomous driving cars. The work I have done so far includes:

- Applying deep learning algorithms to real world problems like lane tracking and traffic signs detection with different frameworks like TensorFlow and Caffe.
- Using OpenCV for image processing and features extraction.
- Building complex robotic systems using ROS, including the use of sensor fusion and Kalman filtering for localization and implementing PID control systems.

https://fourplusone41.github.io/

06/2018 - 09/2018: DOCA

Submission for "PARDUS Dosya Sınıflandırma ve Analiz (DoSA)" Competition in which we won the first place. https://github.com/husmen/DoCA_GUI

PUBLICATIONS

S. Eken, H. Menhour, et al, "A Reproducible Educational Plan to Teach Mini Autonomous Race Car Programming", *IJEEE* 2020. (Awaiting publication)

S. Eken, H. Menhour, K. Köksal, "DoCA: A Content-based Automatic Classification System for Digital Documents", *IEEE Access*, vol. 7, pp. 97996-98004, Jul. 2019.

S. Eken, H. Menhour, "Is Video from a Security Footage or Not?", *Proc. ICCESEN*, pp. 237-240, Oct. 2018.

REFERENCES

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