



HOUSSEM MENHOUR

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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 data science. Being an active member of many 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.

EDUCATION

09/2015 - Now: Kocaeli University, Bachelor of Computer Engineering

Subjects include: ● Algorithm Analysis ● Software Engineering ● Design Patterns ● Neural Networks ● Big Data Analysis ● Distributed Systems ● Embedded Systems ● Control Systems

09/2014 - 06/2015: TÖMER, Turkish Language Preparatory Class

09/2012 - 06/2014: Boumerdes University, Institute of Electrical & Electronics Engineering

Subjects include: ● Circuit Analysis ● Digital systems with VHDL

CERTIFICATES

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 – IEEEExtreme Turkey Competitive Programming Camp.

ACCOMPLISHMENTS

November 2019 – 2nd place at AçıkHack NLP hackathon organised by Bilişim Vadisi and Turkey Open Source Platform.

August 2018 – 1st place at Havelsan's Open Innovation Competition (PARDUS DoSA).

August 2014 - Fully funded scholarship from Turkey Scholarships Program.

June 2012 - Baccalaureate Exam with First Class Honours.

SKILLS

Technical Skills and Field Knowledge

Software Development:

C/C++, Python ◆◆◆◆, Scala, Java ◆◆◆◆, Go ◆◆◆◆, SQL (PostgreSQL) ◆◆◆◆, NoSQL (CouchDB, Cassandra, InfluxDB, Redis) ◆◆◆◆, Flask ◆◆◆◆, Django ◆◆◆◆, GUI w/ Qt ◆◆◆◆

Data Science, Machine Learning and Computer Vision:

Pandas & NumPy & SciPy ◆◆◆◆, Scikit-Learn ◆◆◆◆, XGBoost ◆◆◆◆, TensorFlow ◆◆◆◆, Keras ◆◆◆◆, OpenCV ◆◆◆◆

Big Data Technologies:

Kafka ◆◆◆◆, Spark ◆◆◆◆, BigQuery ◆◆◆◆, Hadoop ◆◆◆◆, Tableau ◆◆◆◆

Cloud & DevOps:

Git ◆◆◆◆, Docker ◆◆◆◆, GCP ◆◆◆◆, AWS ◆◆◆◆

Embedded Programming: MSP430, T4MC123G, nRF52840

Other: Linux, Bash, ROS, MATLAB, CUDA, HTML5&CSS3

Languages

Arabic: Native

English: Advanced, TOEFL 94

Turkish: Advanced, TÖMER C1

French: Intermediate

German: Basic

Soft Skills

Great communication and leadership skills

Agile development

Analytical thinking

Self-motivated

Fast learner

EXPERIENCE

06/2018 - 08/2018: Research Intern at Kocaeli University

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.

01/2013 - 06/2014: Project Manager at Inelectronics Student Club

Designed and managed a WordPress website for the club's activities and news.

Organized successful events with student project presentations and speakers from companies like Microsoft and Schlumberger.

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. We built a full system and implemented features for lane tracking, traffic signs detection and localization. Used technologies include Jetson TX2, ROS, TensorFlow, YOLO, OpenCV, Sensor fusion, Kalman filter, PID.

<https://github.com/fourplusone41>

06/2018 - 09/2018: DoCA

I developed a program for automatic document classification and analysis covering text, images, audio and video file types. This project won 1st place at Havelsan Open Innovation Competition (PARDUS DoSA).

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. (Approved and 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.

H. Menhour, S. Eken, "Is Video from a Security Footage or Not?", *Proc. 5th ICCESSEN*, pp. 237-240, Oct. 2018.

REFERENCES

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