Ahmet Serdar **Karadeniz**

SOFTWARE ENGINEER · RESEARCHER

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Education

Hacettepe Univesity   *Ankara, Turkey*

M.Sc. IN COMPUTER ENGINEERING   *2018 - 2020*

- Thesis: Enhancement of Dark Images and Videos via Set-Based Learning

Middle East Technical University   *Ankara, Turkey*

B.S. IN MATHEMATICS   *2012 - 2018*

Skills

Programming   Python, Swift, Objective-C, C/C++
Others   Unix/Linux, OpenCV, Scikit-Learn/Pytorch/Tensorflow, Flask, Git, Rest/JSON, MySQL, DigitalOcean/AWS/Bluemix
Languages   Turkish, English

Experience

Ray Informatics   *Ankara, Turkey*

CO-FOUNDER & SOFTWARE ENGINEER   *2017 - Present*

- Designed and developed mobile apps related to computer vision that are downloaded by over 1 million people.
- Utilized recent state-of-the-art algorithms for image segmentation, colorization, super-resolution that run on mobile devices.
- Implemented several API microservices in Flask and deployed them to Digitalocean servers.
- Built applications for customers that enables users to see virtual 360 environments.

Hacettepe University Computer Vision Lab   *Ankara, Turkey*

RESEARCH STUDENT   *2018 - 2020*

- Researched methods to improve the quality of extremely low-light images.
- Learned reading research papers in machine learning by identifying key ideas, strengths and weaknesses of the papers.
- Read and discussed recent papers with other research students in deep learning and computer vision.

IBM   *Ankara, Turkey*

SUMMER INTERNSHIP   *July. 2017 - August. 2017*

- Learned about IBM Watson AI and IBM Bluemix technologies.
- Developed a file transfer application with Python and Apache Kafka, deployed the application on IBM Bluemix.
- Contributed to a project that provides a restricted user-interface of a database to IBM customers.
- Developed an application which counts the objects passing through a production line by video processing with OpenCV/C++.

Microsoft   *Istanbul, Turkey*

SUMMER INTERNSHIP   *Jun. 2015 - Jul. 2015*

- Developed a computational tool for Linear Algebra as a Windows universal app.
- Gave a presentation about the project at the end of the internship.
- Taken accelerated education about various subjects such as software development and machine learning.

Publication

Burst Photography for Learning to Enhance Extremely Dark Images

SUBMITTED TO IEEE TRANSACTIONS ON IMAGE PROCESSING (UNDER REVIEW)   *2020*

- Ahmet Serdar Karadeniz, Erkut Erdem, Aykut Erdem

Room-Level Indoor Localization with Artificial Neural Networks

MEDITERRANEAN CONFERENCE ON PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE. SPRINGER, CHAM, 2019   *2019*

- Ahmet Serdar Karadeniz and Mehmet Onder Efe

Improving CNN Features for Facial Expression Recognition

ZERO: Jurnal Sains, Matematika dan Terapan 3.1 (2019): 1-11.   *2019*

• Ahmet Serdar Karadeniz, Mehmet Fatih Karadeniz, Gerhard-Wilhelm Weber

References

Assoc. Prof. Erkut Erdem

Hacettepe University, Computer Vision LAB

Assoc. Prof. Aykut Erdem

Koc University, KUIS AI LAB

Kurtulus Yildirim

IBM, Engineering Expert Labs