Osman Cihan Kilinc

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## **EDUCATION**

•	University of California San Diego	San Diego, CA, USA
	M.S. in Electrical Engineering (Machine Learning and Data Science)	$Sep\ 2017-Jun\ 2019$
•	Istanbul Technical University	Istanbul, Turkey
	B.S. in Computer Engineering	$Sep \ 2011 - Feb \ 2016$

## EXPERIENCE

ASML San Diego, CA, USA Sep 2019 - Present Software Engineer

- Responsible for developing various software components of the EUV light source.
- Responsible for supporting the CI/CD tools and practices.
- Set up OPC UA communication infrastructure to enable end-to-end testing of the PLC and software.
- o Organized and lead Agile/Scrum events, monitored schedule, presented reports on progress and communicated with stakeholders.

UCSD Adaptive Computing and Embedded Systems (ACES) Lab. San Diego, CA, USA Research Assistant Aug 2018 - Jun 2019

- Developed a novel fully-decentralized machine learning method that enables peer-to-peer training.
- o Implemented and tested intellectual property protection methods for deep learning models.

Softtech Istanbul, Turkey Software Engineer Mar 2017 - Aug 2017

- Designed and developed the front-end of a web application where doctors can monitor their patients' health and cardiovascular data in real-time.
- Tested front-end code in multiple browsers to ensure cross-browser compatibility and quality control.

Baykar Istanbul, Turkey Software Engineer Apr 2016 - Feb 2017

- Created an automated testing platform for ECG analysis algorithms using C++ and co-authored the documentation of the wearable heart monitor.
- Decreased CPU-based computation for the display of real-time high frequency multi-channel signals 20-fold by developing an OpenGL-based 2-D plotting library.

#### Programming Skills

- Languages: Python, C++, C, Bash, Matlab
- Frameworks & Tools: PyTorch, GoogleTest, Jenkins, Git, OPC UA
- Proficient: Tensorflow, Keras, TypeScript, JavaScript, React, Prisma, GraphQL, PostgreSQL, Vivado HLS

# **Publications**

- Lalitha, A., Kilinc, O., Wang, X., Javidi, T. & Koushanfar, F. (2019). Decentralized Bayesian Learning over Graphs. arXiv preprint arXiv:1905.10466
- Lalitha, A., Kilinc, O., C., Javidi, T. & Koushanfar, F. (2019). Peer-to-Peer Federated Learning on Graphs. arXiv preprint arXiv:1901.11173
- Chen, H., Rouhani, B. D., Fan, X., Kilinc, O. C., & Koushanfar, F. (2018). Performance Comparison of Contemporary DNN Watermarking Techniques. arXiv preprint arXiv:1811.03713.

#### Selected Projects

- Vegetation Classification using Hyperspectral Images: Optimized and accelerated a convolutional neural network for vegetation classification on hyperspectral satellite images by 100-fold decrease in model size, whilst maintaining accuracy.
- Social Effects on Finance: Visualized the correlation between stock prices and the public sentiment on Twitter via public sentiment analysis.