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
Software Engineer
Sep 2019 – Present

- 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.
- 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.
- 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, Tensorflow, GoogleTest, Jenkins, Git
- **Proficient:** TypeScript, JavaScript, React, Prisma, GraphQL, PostgreSQL

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.