Taha Tekdoğan

Portfolio: tekdogan.github.io
Github: github.com/tekdogan

Email: tahatekdogan97@hotmail.com
Mobile: +90-531-709-75-80

Education

- **Istanbul Technical University** — Istanbul, Turkey
  Master of Science - Computer Engineering; GPA: 3.56 — *Jan 2020 - Jan 2023*
  Thesis: Analyzing the Traffic of MANETs using Graph Neural Networks
  Courses: Advanced Topics in Algorithms, Machine Learning, Image Processing, Parallel Programming, Advanced Database Systems

- **Ankara University** — Ankara, Turkey
  Bachelor of Engineering - Computer Engineering; GPA: 3.63 — *Sep 2015 - June 2019*
  Final Project: An autonomous mobile device that measures the air quality in a predetermined route. Results are transferred to the server and can be reached via an appropriate interface (browser, app, etc.).
  Courses: Android OS for Mobile Devices, Data Mining, Embedded System Programming, Fuzzy Logic, Embedded System Design, Information Security, Automata Theory

Skills Summary

- **Languages**: C, C++, C#, Python, CUDA, Java
- **Frameworks**: PyTorch, Tensorflow, PyTorch Geometric, Deep Graph Library

Experience

- **ASELSAN Inc.** — Ankara, Turkey
  Software Design Engineer — *Feb 2019 - Present*
  - **Wideband Signal Analysis**: A comprehensive Digital Signal Processing (DSP) project to process wideband IF input data and produce spectrum, spectrogram and hops by operating algorithms FHSS, DSSS, OFDM, etc. Project is coded using C++(11).
  - **Cross Compilers**: Compiling source codes for different environments and producing static/dynamic libraries for them. Generating wrappers for ease of use.
  - **Symbology**: A GIS project for field survelliance complying with MIL-STD-2525C standards, developed with Swing framework and Java 8.0.

- **UDEA Electronics** — Ankara, Turkey
  Intern, R&D Assistant — *Jul 2017 - Aug 2017*
  - **Data Visualizer**: Developed an interface with Visual C# to parse, analyze and visualize data fetched from PCANBUS, via Serial Port.
  - **GPS Data Parser**: Built an algorithm and implemented it with C programming language to parse and log the live GPS data stream.
  - **Time Setter**: Developed a System Time Setter Interface with Java (VisualVM) to handle an embedded device's date and time configurations.

Publications

- **gSuite: A Flexible and Framework Independent Benchmark Suite for Graph Neural Network Inference on GPUs**: Submitted paper to be published by IEEE in late 2022. IEEE International Symposium on Workload Characterization, Nov 6-7 2022, Austin, Texas, USA.
- **Benchmarking Apache Spark and Hadoop MapReduce on Big Data Classification**: 2021 International Conference on Cloud and Big Data Computing, University of Liverpool, Liverpool, UK. 6-8 Aug 2021. Published in ACM International Conference Proceedings Series 2021. DOI:10.1145/3481646.3481649

Honors and Awards

- Best Oral Presentation Award, ICCBDC'21 - Aug, 2021