

Mert Koşan

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EDUCATION

University of California at Santa Barbara Department of Computer Science <i>Ph.D. in Computer Science, 1st Year Outstanding Scholar Fellowship GPA: 4.00</i> <i>Advisor: Prof. Ambuj K. Singh Research Area: Network Science, Machine Learning</i>	California, USA 2018 – 2023
Sabancı University Faculty of Engineering and Natural Sciences <i>Bachelor of Science in Computer Science and Engineering GPA: 3.99 1st Ranked</i>	Istanbul, Turkey 2013 – 2018

WORK EXPERIENCE

Proente , Part-time Software Engineer, www.proente.com <ul style="list-style-type: none">Developed a software application that examines and generates reports based on collected data by Prowmes, IoT device of Proente.Improved database of the application, experienced in software development with Angular, NodeJS.	Istanbul, Turkey June 2017 – Aug 2018
Robert Bosch GmbH , Intern, Software Engineer <ul style="list-style-type: none">Designed and implemented a software application generating workshop reports based on collected data by ESI [Tronic] 2.0 device. Experience in how to manage a database and how to improve the performance of a database. Worked on Oracle, MySQL, Java, Angular.	Plochingen, Germany June 2016 – Aug 2016

TEACHING EXPERIENCE

UC Santa Barbara , Teaching Assistant of Data Structures & Algorithms Course <ul style="list-style-type: none">Led the discussion section, preparing class materials and supervising student for their projects.	California, USA Sep 2018 – April 2019
Sabancı University , Teaching Assistant of Database Systems & Operating Systems Courses <ul style="list-style-type: none">Prepared the lab materials and helped students in their web application project using MYSQL.Prepared homework and helped students in their operating systems project written in C++.	Istanbul, Turkey Feb 2016 – May 2017

LEADERSHIP/INVOLVEMENT

Enhancement Workshops for Computer Science , Co-designer and Instructor, Sabancı University https://github.com/CSEssentialsWorkshops <ul style="list-style-type: none">The aim is quality enhancement of Computer Science and its students in Sabancı University.Created workshops and instructed Computer Science related courses (Git, Linux, Gcc, Python etc.).	Istanbul, Turkey Jan 2018 – June 2018
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RESEARCH EXPERIENCE

Event Detection on Temporal Graphs , Independent Research, Research Assistant <ul style="list-style-type: none">Identifying important/necessary features of a dynamic graph using representation learning, graph embedding and feature engineering.Detecting an external event based on the previous events on dynamic graphs by using a neural network.	California, USA Sep 2018 – Present
Impact Measurement of Tweets , Program of Undergraduate Research, www.github.com/tweet-impacts <ul style="list-style-type: none">Measured the hidden impact of a tweet by detecting copy-pasted or referenced tweets which we named “Hidden Retweets”. The number of retweets may give the missing information for the impact.	Istanbul, Turkey Oct 2017 – June 2018
Differential Privacy Framework for Movie Recommendation System , Graduation Project www.github.com/BenKosSoft/pymovieLens <ul style="list-style-type: none">Designed and implemented a movie recommendation system that utilize Differential Privacy framework which guarantees the privacy of the individual user ratings.	Istanbul, Turkey Sep 2016 – Sep 2017

OTHER PROJECTS

Bike Sharing , Combinatorial Algorithms Course Project, https://github.com/mertkosan/bike-sharing <ul style="list-style-type: none">Designed and implemented a bike sharing rebalancing problem using a network flow approach.	California, USA Sep 2018 – Dec 2018
CryCur , www.github.com/BenKosSoft/crycur <ul style="list-style-type: none">Created a command line tool introducing helpful functionalities for crypto-currency application.	Istanbul, Turkey Sep 2017 – Jan 2018
Economics and Terrorism , https://sudatateam.wordpress.com/ <ul style="list-style-type: none">Tried to show the relation between economic prospects of the countries, such as GDP, foreign capital investments, and terrorism by using data science techniques.	Istanbul, Turkey Jan 2017 – May 2017

SKILLS

Programming Languages: Python, C++, Java, Android, JavaScript, TypeScript, C#
Database: MySQL, Neo4j, NoSQL
Tools and Software: Git, IntelliJ IDEA, Visual Studio, Android Studio, LaTeX