

Mert Koşan

 www.mertkosan.com

 +1 805 568 88 95 |  mertkosan@gmail.com |  www.github.com/mertkosan |  www.linkedin.com/in/mertkosan

❖ EDUCATION

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| University of California at Santa Barbara Department of Computer Science | Santa Barbara, USA |
| <ul style="list-style-type: none">• <i>Ph.D. student in Computer Science 2nd Year GPA: 4.00</i>• <i>Advisor: Prof. Ambuj K. Singh Research Area: Network Mining, Machine Learning</i> | 2018 – 2023 |
| Sabancı University Faculty of Engineering and Natural Sciences | Istanbul, Turkey |
| <ul style="list-style-type: none">• <i>Bachelor of Science in Computer Science and Engineering GPA: 3.99 1st Ranked</i> | 2013 – 2018 |

❖ WORK EXPERIENCE

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| Proente, Part-time Software Engineer, www.proente.com/en | Istanbul, Turkey |
| <ul style="list-style-type: none">• Developed a software application that generates reports and statistics based on the data collected by Prowmes, an IoT device tries to maximize efficiency in production at the factories. | June 2017 – Aug 2018 |
| Robert Bosch GmbH, Intern, Software Engineer, www.boschesitronic.com/en | Plochingen, Germany |
| <ul style="list-style-type: none">• Designed a software application generating workshop reports based on data collected by ESI [Tronic] 2.0, an IoT device aims to provide solutions and improvements in automotive industry. | June 2016 – Aug 2016 |

❖ TEACHING EXPERIENCE

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| UC Santa Barbara, Teaching Assistant of Data Structures & Algorithms Course | Santa Barbara, USA |
| <ul style="list-style-type: none">• Led the discussion sections, prepared the class materials and supervised the students doing projects. | Sep 2018 – April 2019 |
| Sabancı University, Teaching Assistant of Database Systems & Operating Systems Courses | Istanbul, Turkey |
| <ul style="list-style-type: none">• Prepared the lab materials and supervised the students doing projects using MySQL, C++, Java. | Feb 2016 – May 2017 |

❖ LEADERSHIP/INVOLVEMENT

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| Machine Learning Workshops, Co-designer and Instructor, UC Santa Barbara | Santa Barbara, USA |
| www.cens.de/international/exchange-programs/junior-nanotech-network.html | Sep 2019 – June 2019 |
| <ul style="list-style-type: none">• Helped the students, from A Self-Organized PhD Students Exchange Program by Junior Nanotech Network, by teaching them machine learning methods and how to apply these methods to their projects. | |
| Enhancement Workshops for Computer Science, Co-designer and Instructor, Sabancı University | Istanbul, Turkey |
| www.github.com/CSEssentialsWorkshops | Jan 2018 – June 2018 |
| <ul style="list-style-type: none">• Aimed for a quality enhancement of the students' knowledge about Computer Science.• Created workshops and instructed Computer Science related courses (Git, Linux, Gcc, Python etc.). | |

❖ RESEARCH PROJECTS

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| Event Detection on Dynamic Networks, Research Assistant, with Prof. Ambuj Singh | Santa Barbara, USA |
| <ul style="list-style-type: none">• Proposed an event detection framework for dynamic graphs using simple global and local graph features.• Implemented the framework, testing it on multiple datasets. | Sep 2018 – Present |
| Impact Measurement of Tweets, Program of Undergraduate Research, www.github.com/tweet-impacts | Istanbul, Turkey |
| <ul style="list-style-type: none">• Measured the hidden impact of a tweet by detecting copy-pasted or referenced tweets which are named as "Hidden Retweets" by Dr. Arin. | Oct 2017 – June 2018 |
| Differential Privacy Framework for Movie Recommendation System, Graduation Project | Istanbul, Turkey |
| www.github.com/BenKosSoft/pymovieLens | Sep 2016 – Sep 2017 |
| <ul style="list-style-type: none">• Proposed and implemented a movie recommendation system that utilize differential privacy framework which guarantees the privacy of the individual user ratings without losing the utility of the data too much. | |

❖ OTHER PROJECTS

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

❖ SKILLS

Programming Related: Python, C++, Java, JavaScript | MySQL, Neo4j | Git, LaTeX
Languages: Turkish (native) | English (fluent) | Spanish (basic)