
EDUCATION

- Sabanci University**, Istanbul, Turkey Expected Jun. 2020
B.S. Computer Science ,Double Major in B.Eng. Electronic Engineering, Minor in Psychology, 2020 (GPA: 3.58)
- Hong Kong University of Science and Technology**, Hong Kong Jan. 2018 - Jun. 2018
Exchange Student on Electronic Engineering and Computer Science, 2018
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WORK EXPERIENCES

- A-STAR, Institute for Infocomm Research – Security Research Intern** July 2019 – Sept. 2019
- Worked on implementation of privacy preserving protocols on Deep Learning and improvement of those protocols
 - Applied knowledge of Multiparty Computing Security (HE, GC) to CNN models with using less resources
- Boston University, Secure Systems Lab - Summer Intern / Advisor: Prof. Manuel Egele** July 2017 – Sept. 2017
- Analyzed potential security leakages with analyzing Twitter data whether it has homoglyph characters leakage
 - Built a Web Scraper System which collects information using 30 Cluster and message broker system RabbitMQ
- Accenture – Software Engineering Intern** June 2019 – July 2019
- Implemented business services and RESTful APIs at backend side of employee vacation tracking project
 - Integrated event and time triggered serverless applications into microservice architecture on Microsoft Azure environment
- Multinet Inventiv - Software Engineering Intern** July 2018 – Jan. 2019
- Worked on Fraud Detection and Prevention System which uses microservices and machine learning to identify fraud
 - Implemented REST microservices(Spring), unit and integration tests(Junit) and designed MSSQL database, front-end web application using Primefaces on java environment
- Sabanci University - Teaching Assistant and Tutor** Sept. 2014 - Present
- Courses: Introduction and Advance Programming with C++, Logic and System Design, Calculus, Physics, Chemistry
 - Attended recitations and assisted students through the problems, labs to understand concepts for exams and homework
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RELEVANT COURSEWORK

- Cryptography – CS 411, Sabanci University (SU)
 - Operating and Database Systems – CS 307, CS 306,SU
 - Computer Networks and Security – CS 432, SU
 - Computer Organization – COMP 2611, HKUST
 - Machine Learning – Coursera, Prof. Andrew Ng
 - HDL, Digital and Logic Systems – EE 310, CS 303 SU
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PROJECTS

- Sabanci University, Intrusion Detection System on IoT Devices - Bachelor's Thesis** Sept. 2018 – Present
- Implemented Machine Learning models on network traffic data to identify intrusions with **Prof. Albert Levi**
 - Created different network traffics for different scenarios using 6-LoWPAN, RPL protocols and implemented different attacks
- Sabanci University, Relabeling Sparse Tensors – Undergrad Researcher** Sept. 2017 – Jan. 2018
- Designed algorithm to decrease processing time of sparse n-dimension tensors relabeling features of tensors
 - Analyzed to working mechanism of Cache and RAM in terms of performance increase with **Prof. Kamer Kaya**
 - Visualized sparse tensors and their relabeled forms, found statistic metrics given tensors using Python
- Implementing Cryptocurrencies with Blockchains - Advisor: Prof. Erkan Savas** Oct. 2017 – Jan. 2018
- Implemented a blockchain currency using essential cryptographic algorithms on python environment
- Operating System Simulation - Advisor: Prof. Yucel Saygin** Sept. 2017 – Dec. 2017
- Implemented CPU, Memory, Disk, I/O operations and algorithms using Java and its tools
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HONOR AND AWARDS

- The National University Entrance Exam** June 2014
- Being among to first thousand (635th) in 2 million students and earned scholarship from Sabanci University
- TÜBİTAK Summer School Invitation - The Scientific and Technological Research Council of Turkey** Apr. 2012 and Apr. 2013
- Being among to first fifty on National Chemistry Competition and invited to summer school 2 times
- High Certificate of Dean (All Times) - Sabanci University, Faculty of Engineering and Natural Science** Jan. 2015 - Present
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SKILLS

Proficient in: C++, Python, Unix, Java, SQL, Matlab
Familiar with: JavaScript, HTML, CSS, C#, Verilog HDL

Languages: English(*Advanced*), Turkish(*Native*), German(*Beginner*)
Technologies: Git, MySQL, Spring, Hibernate, Junit, Docker, TDD, Azure, Kali Tools, WordPress