github.com/ferhatyaman
www.linkedin.com/in/ferhatyaman/
ferhatyaman.com

Ferhat Yaman

E-mail: ferhatyaman@sabanciuniv.edu
Phone: +90(531)8434727

Şifa Mahallesi. Zambak Sokak, No:7/1
34950, Tuzla, Istanbul, Turkey

EDUCATION

Sabanci University, Istanbul, Turkey   Expected Jun. 2020
   B.S. Electronic Engineering and Computer Science, Minor in Psychology, 2020 (**GPA: 3.54**)

Hong Kong University of Science and Technology, Hong Kong   Jan. 2018 - Jun. 2018
   Exchange Student on Electronic Engineering and Computer Science, 2018

WORK EXPERIENCES

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

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

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

Sabancı 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

RELEVANT COURSEWORK

- Cryptography – CS 411, Sabanci University (SU)
- Computer Networks – ELEC 4120, HKUST
- Communication Systems – EE 313, SU
- Machine Learning – Coursera, Prof. Andrew Ng
- Operating and Database Systems – CS 307, CS 306, SU
- Computer Organization – COMP 2611, HKUST
- HDL, Digital and Logic Systems – EE 310, CS 303 SU
- Digital Integrated Circuits – EE 302, SU
- Systems and Signal Processing – EE 311, ENS 211, SU
- Algorithms and Data Structures – CS 300, CS 301, SU

PROJECTS

Implementing Cryptocurrencies with Blockchains - Advisor: Prof. Erkay 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

Computer Game with Hand Gesture Recognition - Advisor: Prof. Mustafa Unel   Nov. 2016 – Jan. 2017
- Designed a game using Computer Vision algorithms on Matlab

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

SKILLS

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

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