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EDUCATION

University of Sussex	MSc Advanced Computer Science	Sep 2019 – Oct 2020
<ul style="list-style-type: none">❖ Pandemic Simulation with Reinforcement Learning, dissertation project for master's degree❖ Area Courses: Machine Learning/ Engineering Reliable and Scalable Project / E-Business and E-Commerce Systems❖ GPA: Distinction 1:1		
Koç University	BSc Mechanical Engineering	Sep 2014 – June 2019
<ul style="list-style-type: none">❖ Senior year project: A Haptic Feedback Glove for Virtual Reality. Got A+ and Best Senior Project Award.❖ Area Courses: Rocket Propulsion / Finite Elements Analysis /Machine Design /Corporate Dynamics for Engineers		

EXPERIENCE

Data Scientist & ML Engineer	Dcipher Analytics	Jan 2021 – Present
<ul style="list-style-type: none">❖ Creating NLP models for sentiment analysis of social media in Finance Sector		
Data Scientist	Macerita	March 2020 – Jan 2021
<ul style="list-style-type: none">❖ An Avalanche Risk Prediction Model which is funded by the Scientific and Technological Research Council of Turkey.❖ Created a multiclass classification model with TensorFlow, Python and achieved 87% accuracy for high and medium levels of avalanche risks in the Region of Aladaglar, Turkey		
Lead Software Engineer	KARMA Lab Immersive Technologies	Jan 2019 – Jun 2019
<ul style="list-style-type: none">❖ Coordinated KARMA Lab's 3 VR/AR/MR projects: KU-TWIN, Isles of Emotion, Psychosis❖ Challenged by a group of 15 people from different backgrounds including professionals, PhDs and grad students.❖ Gained expertise at creating projects with Arduino, Leap Motion and Infrared Cameras for Computer Vision		
Software Engineer	KUAR Research Center for Creative Industries	Oct 2018 – Jun 2019
<ul style="list-style-type: none">❖ Achieved to create a "Digital Twin" of campus for VR by utilizing photogrammetry techniques and Unity.❖ Obtained a deep care about developing, releasing and maintaining high quality code.❖ Learned the importance of version control with large-scale simulations up to 1TB.		
Data Science Intern	BSH Hausgeräte	July 2018 – Sep 2018
<ul style="list-style-type: none">❖ Focused on creating a performance report at Cooling Systems-Functional R&D Center of Refrigeration Department❖ Achieved 5%-time efficiency by optimizing the manufacturing process of refrigerators cover hinges.		
Summer Intern	Ford Otosan	May 2017 – Sep 2017
<ul style="list-style-type: none">❖ Worked in "Engine and Power Train Manufacturing" Department R&D in İnönü Truck Factory.❖ Reverse engineered the competitors' truck engines and compared the results with Ford Ecotorq Truck Engine.		
Undergrad Research Assistant	Manufacturing and Automation Research Center	Oct 2016 – Nov 2017
<ul style="list-style-type: none">❖ Implemented a PID controller for 2D Inverted Pendulum with MATLAB Simulink which got selected the most robust model towards to noise signals in Mech304 Control Systems Course❖ Reverse engineered a Hexacopter drone and modelled on Siemens NX		

PROJECTS

- ❖ [Pandemic Simulation with Deep Reinforcement Learning](#). The project is about training agents to make them learn survival strategies in an epidemic outbreak such as social distancing and self-quarantine. **TensorFlow** is used as backend and trainings are done on cloud using **AWS EC2** instance. The **Unity** added the project to their showcase and the project will be public soon. Moreover, the thesis is planned to publish after Oct 2020.
- ❖ [A Binary Image Classification Machine Learning Project](#) in Postgraduate Machine Learning Module. A **Random Forest Classifier** model has been chosen and implemented with **Python** using **Sklearn**. Imbalance, unlabeled data, domain adaptation and confidence annotation were some of the challenges that I have been faced. **Finished at the top** of the leaderboard with 82% accuracy in the test-set.
- ❖ [A Vibrotactile Hand Interface for VR](#) was final year project of bachelor's degree. The project aimed to create sense of reality by giving vibrotactile feedback to hand. The hardware has been created using 10 **ERM** vibration motors, **Arduino**, **C**, **Leap Motion** and **HTC VIVE** and **3D printing**; software has been developed with **C#** in Unity. The project got **Best Engineering Project Class of 2018-2019 Award** and it is presented in **VRDays Exhibition** on Amsterdam afterwards.
- ❖ [A Cross Platform Multi-User Real Estate Application](#) is created using **React Native** and **JavaScript**. The **MongoDB** is used as database, **Firestore** used for Authentication and the **REST API** is implemented with **Express.js** in **Node.js**.
- ❖ A web-based, multi-user-payment service using **J2EE** technologies. 3-Tier Architectural pattern has been utilized: **Java Server Faces** for user interfaces, **Enterprise Java Beans** for business logic, **Form-based authentication** for security and **Java Database Connectivity (JDBC)** and **SQL** for database.

Work Eligibility: Eligible to work in the UK and Turkey