YUSUFHAN KIRCOVA

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EDUCATION

SEP/2024	*M.Sc. Computer Graphics, Vision, and Imaging* - **University College London**	London, United Kingdom

SEP/2022	*B.Sc. in Computer Science and Engineering* - **Sabancı University**	Istanbul, Turkey
	Graduated 4th in Faculty of Engineering	Dean's High Honour List	CGPA: 3.70/4.00	

JUN/2023	*B.Sc. in Electronics Engineering* - **Sabancı University**	Istanbul, Turkey
	Double Major	CGPA: 3.41/4.00	

WORK EXPERIENCE

DEC/2022 DEC/2021	**SAP** - *Software Developer (Part-time)*	Istanbul, Turkey

- Developed new features for SAP Data Intelligence using **TypeScript**
- Created and executed integration and unit tests with **Python** to ensure code reliability
- Operated within Agile/Scrum frameworks, utilizing Git for version control and **JIRA** for project tracking
- Provided documentation and conducted proof of concepts for end-to-end testing

NOV/2021 OCT/2020	**Bosch** - *Associate Project Manager (Part-time)*	Istanbul, Turkey

- Managed digital transformation and software implementation projects for factories
- Facilitated daily communication between customers and developers to ensure solution of technical issues
- Developed a **Node-RED** based data collection system to automate the extraction of metrics from production
- Developed 10+ HMI displays for manual data collection from production lines
- Integrated 520+ data points with **InfluxDB** for real-time analytics
- Monitored key performance indicators to guide digital transformation and software project execution

JAN/2020 SEP/2019	**Sabancı University Faculty of Engineering** - *Learning Assistant*	Istanbul, Turkey

- Conducted weekly office hours and solved questions related to the lectures of Calculus I

SELECTED RESEARCH PROJECTS

SEP/2023 SEP/2022	**Automated Behavioural Analysis of Asleep Fruit Fly	Python (TensorFlow, OpenCV)**
	Undergraduate Research Assistant Wu Lab, Johns Hopkins University

- Working on behavioural analysis of fruit flies using computer vision
- Using OpenCV to detect the motion and movements of fruit flies
- Built a video classifier model using MoViNet for action recognition of different fly behaviours

FEB/2023 SEP/2021	**Full-Duplex Medium Access Control (MAC) Protocol Implementation	Embedded C**
	Undergraduate Research Assistant (Graduation Project) Sabancı University

- Implemented a proposed Full-Duplex MAC protocol by editing the IEE 802.11 source code
- Doubled the Wi-Fi throughput using Synchronized Contention Window Protocol

DEC/2019 JUN/2019	**Designing a Prototype for an Arduino based Sound Installation	Arduino**
	Undergraduate Research Assistant Sabancı University

- Collaborated in a cross-functional team of 5 on a multi-disciplinary project.
- Designed, developed, and built an **Arduino** sound installation which fits within Istanbul Islands' ecosystem
- Project got featured on multiple newspaper articles including "gazete oksijen" and "dokuzadabirdeniz.com"
- **Delivered presentations** at the international conference, **DH-UNBOUND 2022**, to the **Mayor of the Islands**, and to the Union of Chambers of Turkish Engineers and Architects.

SELECTED PROJECT

JAN/2022 SEP/2021	**Accident Detection in Traffic	Python (OpenCV)**
	Computer Vision Course - Term Project

- Used the YOLO v3 algorithm/model for object recognition
- Implemented centroid tracking algorithm for object tracking
- Implemented a proposed solution that made use of image statistics for accident detection

SKILLS

Languages and Frameworks: Python, C#, C++, TypeScript, Node.js, .Net Core, Spring Boot, TensorFlow, OpenCV
Certificates: AWS Certified Cloud Practitioner