

# Sadra Mohammadzadehazarabadi

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## WORK EXPERIENCE

11/2024 – 06/2026 Ankara, Türkiye  
**SOFTWARE ENGINEER TÜBİTAK UZAY**

- **FPGA** development for real time output using **VGA** and **HDMI**
- Experience in realistic **star image generation** for **star tracker** using **Python, Gaia, Astrometry**
- Constructed robust pipeline for **accuracy optimization in arc-seconds**
- Employed **parallel processing** and **caching** to reduce pipeline compute time to a fraction of a second
- Experience with technologies such as **Raspberry-Pi** and **Nvidia Jetson Orin Nano**

07/2024 – 08/2024 Ankara, Türkiye  
**SOFTWARE ENGINEER INTERN DATATEAM**

- Created an e-commerce project using **NodeJS** and **VueJS**
- **Dockerised** the project for the deployment pipeline
- Used **MongoDB** extensively
- Developed a **recommender model** from scratch

06/2024 – 07/2024 Ankara, Türkiye  
**EMBEDDED ENGINEER INTERN BÜYÜTECH**

- Used **OpenCV** and **Cipia Driver Sense** to detect driver distraction
- Created a low-level **XML parser** from scratch in **C++**
- Geometrically calculated areas of interest depending on the gaze
- Implemented optimized encryption and decryption to logging
- Developed a **GUI** interface

01/2022 – 08/2023 Ankara, Türkiye  
**CO-FOUNDER TOGATHER**

- Founded an event based **social app** with a dynamic map and geolocation features utilizing **Flutter**
- Garnered approximately **500 users** during beta testing
- Presented the application in conferences alongside companies including Microsoft and Roketsan
- Developed a **back-end** server by utilizing **Django, PostgreSQL, Websockets, and Firebase**
- Won **50,000\$ digital aid** in an Ideathon
- Created a **Crypto** token using solidity with a unique mining mechanism

## EDUCATION AND TRAINING

09/2021 – CURRENT Ankara, Türkiye  
**BACHELORS' IN COMPUTER ENGINEERING** Bilkent University

- Received merit scholarship
- Participated in multiple programming contests and hackathons

Website [w3.bilkent.edu.tr](https://w3.bilkent.edu.tr)

DIGITAL SKILLS	VOLUNTEERING	PROJECTS	LANGUAGES
<b>Proficient</b> Typescript   JavaScript   Python   C++   Flutter   Git   Django   FastAPI   HTML   CSS   PostgreSQL   UI/UX	09/2023 – 05/2024 Ankara <b>Head of Audit ACM Bilkent</b> Consulted the organization team Organized several academic and social events	09/2023 – 12/2023 <b>Bilart</b> Designed and implemented an arts' and tutorials' hosting platform for art enthusiasts. <a href="#">Bilart</a>	<b>PERSIAN:</b> Native <b>TURKISH:</b> C2 <b>ENGLISH:</b> C2
<b>Working Experience</b> NextJS   VueJS   React   NodeJS (TS & JS)   C   MongoDB   Unity   MySQL   C#   Pytorch   Java   Docker   Langchain   Neural Networks   Tensorflow	09/2021 – 06/2022 Ankara <b>Web-Lead aaaa</b> Gave lectures to students on Flutter and Firebase Consulted the organization team	09/2023 – 12/2023 <b>Bilform</b> Bilform is a social media platform for Bilkent University students. <a href="#">Campus Connect</a>	