

# Sadra Mohammadzadehazarabadi

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## ● WORK EXPERIENCE

11/2024 – 06/2026 Ankara, Türkiye

### SOFTWARE ENGINEER TÜBITAK 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](http://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>	