

Sadra Mohammadzadehazarabadi

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WORK EXPERIENCE

07/2025 – CURRENT Ankara, Turkey

Software Engineer (Freelance) Self-Employed

- Architected video games using **Unity** and **Unreal Engine**.
- Built scalable **backend services** with **Nest.js** and **TypeScript**.
- Refactored legacy code to reduce execution latency by **75%**.

11/2024 – 06/2026 Ankara, Türkiye

Software Engineer TÜBİTAK UZAY

- Developed **FPGA** real-time output systems using **VGA** and **HDMI**.
- Engineered star image generation pipelines using **Python**, **Gaia**, and **Astrometry**.
- Optimized accuracy to **arc-seconds** and utilized **parallel processing** for sub-second compute.
- Deployed solutions on **Nvidia Jetson Orin Nano** and **Raspberry-Pi**.

07/2024 – 08/2024 Ankara, Türkiye

Software Engineer Intern DATATEAM

- Developed full-stack e-commerce features using **NodeJS** and **VueJS**.
- Containerized applications with **Docker** for deployment pipelines.
- Managed data persistence using **MongoDB** and built custom **recommender models**.

06/2024 – 07/2024 Ankara, Türkiye

Embedded Engineer Intern BÜYÜTECH

- Implemented driver distraction detection using **OpenCV** and **C++**.
- Developed a high-performance **XML parser** from scratch in **C++**.
- Integrated optimized **encryption** protocols and designed **GUI** interfaces.

01/2022 – 08/2023 Ankara, Türkiye

Co-Founder TOGATHER

- Launched a **Flutter** social app with geolocation, reaching **500+ users**.
- Built **Django** backend with **PostgreSQL**, **Websockets**, and **Firebase**.
- Secured **\$50,000 digital aid** and developed **Solidity** smart contracts.

EDUCATION AND TRAINING

09/2021 – 06/2025 Ankara, Türkiye

BACHELORS' IN COMPUTER ENGINEERING Bilkent University

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

Website w3.bilkent.edu.tr

DIGITAL SKILLS	VOLUNTEERING	PROJECTS	LANGUAGES
Proficient Python C++ TypeScript Django Docker Git	09/2023 – 05/2024 Ankara Head of Audit ACM Bilkent Consulted the organization team Organized several academic and social events	01/2025 – 06/2025 Ankara, Turkey Yolla Yolla.tech Developed a full- stack logistics optimization platform for cargo firm selection. Yolla	PERSIAN: Native TURKISH: C1 ENGLISH: C1
Working Experience NodeJS React PostgreSQL MongoDB Flutter FPGA OpenCV Pytorch Unity Unreal FastAPI C# Java	09/2021 – 06/2023 Ankara Web-Lead GDSC Gave lectures to students on Flutter and Firebase and consulted the organization team	09/2024 – 06/2025 Ankara, Turkey NLP Research Bilkent Analyzed diachronic paths of Persian loanwords in Turkish using NLP techniques.	