

# Sadra Mohammadzadehazarabadi

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## ● WORK EXPERIENCE

07/2025 – CURRENT Ankara, Turkey

### Software Engineer (Freelance) Self-Employed

- Designed and shipped cross-platform game systems using **Unity** and **Unreal Engine**.
- Engineered scalable **backend architectures** with **Nest.js** and **TypeScript**.
- Optimized legacy modules, reducing execution latency by **75%**.

11/2024 – 06/2026 Ankara, Türkiye

### Software Engineer TÜBİTAK UZAY

- Architected star-field simulation pipelines using **Python**, **Gaia** datasets, and **astrometry**.
- Achieved **arc-second** accuracy with **parallel processing** and sub-second compute time.
- Deployed pipelines on **NVIDIA Jetson Orin Nano** and **Raspberry Pi**.

07/2024 – 08/2024 Ankara, Türkiye

### Software Engineer Intern DATATEAM

- Created two full-stack e-commerce modules using **Node.js** and **Vue.js**.
- Containerized services with **Docker** to improve deployment reproducibility.
- Designed **MongoDB** schemas and prototyped **recommendation models**, improving user retention by **25%**.

06/2024 – 07/2024 Ankara, Türkiye

### Embedded Engineer Intern BÜYÜTECH

- Implemented real-time driver monitoring using **C++** and **OpenCV**, processing frames in under **25 ms**.
- Architected a high-performance **XML parser** in **C++**, optimized to parse large files in under **1 second**.
- Integrated **encryption protocols** and contributed to embedded **GUI** systems.

01/2022 – 08/2023 Ankara, Türkiye

### Co-Founder TOGATHER

- Launched a **Flutter**-based geolocation platform serving **500+ users**.
- Architected backend systems using **Django**, **PostgreSQL**, **WebSockets**, and **Firebase**.
- Secured **\$50,000** in funding and deployed **Solidity** smart contracts.

## ● EDUCATION AND TRAINING

09/2021 – 06/2025 Ankara, Türkiye

### Bachelor of Science in Computer Engineering Bilkent University

- Merit-based scholarship recipient. Participated in **10+** competitive programming contests and hackathons.

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

## SUMMARY

New Grad Software Engineer

## DIGITAL SKILLS

### Proficient

Python | C++ | TypeScript | Django | Docker | Git

### Working Experience

Node.js | React | PostgreSQL | MongoDB | Flutter | FPGA | OpenCV | PyTorch | Unity | Unreal Engine | FastAPI | C# | Java

## VOLUNTEERING

09/2023 – 05/2024 Ankara

### Head of Audit ACM Bilkent

Advised the executive board on operational oversight on weekly basis and coordinated **5+** academic and social events.

09/2021 – 06/2023 Ankara

### Web Lead GDSC

Delivered **2** workshops on **Flutter** and **Firebase**.

## PROJECTS

01/2025 – 06/2025 Ankara, Turkey

### Yolla Yolla.tech

Built a full-stack logistics optimization platform using **REST APIs** and **PostgreSQL**, enabling data-driven carrier evaluation in under **1 second**.

Yolla

09/2024 – 06/2025 Ankara, Turkey

### NLP Research Bilkent

University

Conducted diachronic word-embedding analysis on Persian loanwords using **NLP**, **semantic alignment**, and **drift metrics** across **thousands** of terms.

## LANGUAGES

Persian: Native

Turkish: C1

English: C1