

# MUHAMMAD SHAYAN USMAN



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## EDUCATION

### Bilkent University

B.S. Computer Science / 3<sup>rd</sup> Year

Ankara, Türkiye

Sept 2021 – July 2025

- Awarded Merit Scholarship
- Relevant Courses: **CS 342**: Operating Systems, **CS 353**: Database Systems, **CS 473**: Algorithms, **CS 319**: OOP & SWE Development, **MATH 230**: Probability and Statistics for Engineers, **CS 223** & **CS 224**: Digital Design with **Basys3** FPGA

## PROFESSIONAL EXPERIENCE

### [Dill](#)

Part-time SWE Dev

(Remote) New York, USA

Jan 2024 – Present

- Using **React Native**, **Firebase** and **Android Studio** to create web apps for restaurant management systems

### [Neostellar](#)

SWE Team Lead

Ankara, Türkiye

June – Sept 2023

- Used **Python** to develop a UAV flight control system
- Used **Navio2** autopilot card for unmanned control of aircraft
- The software obtains plane data using **Adafruit Ultimate GPS Breakout** connected to Python

### [NanoMagnetics Instruments](#)

Trainee Engineer

Ankara, Türkiye

June – Sept 2023

- Used **Pyside6(Qt)** to convert LabVIEW software into modern and efficient **Python**-based software
- Developed **Python** and **Numpy** plot to correct VSM Hysteresis loop
- Worked on **LabVIEW** applications for operating a Vibrating Sample Magnetometer (VSM)

## RESEARCH WORK

### [Research work with Dr. Anıl Koyuncu](#)

Bilkent University

Ankara, Türkiye

Jan – Feb 2024

- Analysing the use of AI-generated code across GitHub repositories
- Using **Machine Learning** and **Dev2vec** algorithms to create **vector embeddings**

## PROJECTS

### [Bilkent Campus Connect](#)

CS 319: OOP Semester project

Ankara, Türkiye

Oct – December 2023

- Developed a web app to help connect students for the **CS 319** course
- Used **MongoDB**, **ExpressJS**, **React** and **NodeJS**

### [Object Detection using Computer Vision](#)

Personal Project

Ankara, Türkiye

Feb 2024 – Present

- Made an Object Detection program utilising Computer Vision
- Used **Yolo v8**, **OpenCV**, and **Numpy**

### [UAV Ground Controller](#)

NeoStellar Team

Ankara, Türkiye

June – Sept 2023

- Made a Ground Controller for Unmanned Aircraft

### [Restaurant Menu](#)

Personal Project

Ankara, Türkiye

Mar – Nov 2022

- Made a Restaurant Menu Frontend web app
- Used **React.js**, **Javascript**, **CSS** and **HTML**, **JSON**

### [Martian Racer](#)

Personal Project

Ankara, Türkiye

July – August 2022

- 3D Game where you dodge obstacles to win
- Used **Unity** and **C#**
- Published on [itch.io](#)

## ACTIVITIES & CERTIFICATES

### [Google Developer Student Club](#)

Creative Head

Ankara, Türkiye

Sept 2022 – July 2023

### [Brainnest Frontend Industry Training](#)

Aug – Sept 2022

### [Harvard University CS50x 2022](#)

June – July 2022

### [Toastmasters: Youth Leadership Program](#)

Nov 2017 – Jan 2018

## SKILLS & INTERESTS

**Skills:** Java, C++, C#, Python, JavaScript, React, Flutter, Firebase, Unity, SQL, MongoDB, Express.

**Languages:** English (native), Turkish (elementary), Urdu (native), Arabic (elementary)