

# Mücahit Karakütük

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## SUMMARY

Final year Software Engineering student proficient in Python, Java, and C++. I have gained hands-on experience in software development processes through both academic and individual projects. Currently, I am developing a data-driven infrastructure using Web Scraping techniques as part of my capstone project. I create value in collaborative environments by combining my technical skills with strong communication abilities. I am focused on adapting to innovative technologies and continuously advancing my professional competencies.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, SQL, JavaScript

**AI & Data Science:** TensorFlow, Keras, OpenCV, YOLOv5, Scikit-learn, Pandas, NumPy

**Web & Tools:** Selenium (Web Scraping), Git, GitHub, Linux, VS Code, REST APIs

**Soft Skills:** Agile Methodology, Problem Solving, Technical Communication, Team Collaboration

## PROJECTS

### University Preference & Guidance Platform

Capstone Project

Jan 2026 – Present

Python, Selenium, Machine Learning

Developing a centralized platform using **Python (Selenium)** to scrape data and a **Machine Learning** engine for personalized suggestions.

### Car Brand Classification with Deep Learning

Computer Vision Project

Dec 2025

Python, TensorFlow, Keras, CNN

Built a high-accuracy classification system using **TensorFlow/Keras**, optimizing **CNN** and **VGG16** architectures with data augmentation.

### Smart Traffic Light Management System

Computer Vision Project

Nov 2025

Python, YOLOv5, OpenCV

Developed a real-time vehicle density detection system using **YOLOv5** and **OpenCV** to dynamically optimize traffic light durations.

## EXPERIENCE

### TBK Bilisim Sistemleri A.S.

Software Engineering Intern

Istanbul, Turkey

June 2025 – Sept 2025

- Conducted **R&D** activities to design and develop a mobile application for university data visualization.
- Collected and processed large datasets of university statistics to build the application's backend infrastructure.
- Collaborated with the development team to optimize software performance and ensure data accuracy.

### Hilton Boston Dedham

Work and Travel Participant (House Attendant)

Dedham, MA, USA

June 2024 – Oct 2024

- Worked as a House Attendant, demonstrating strong work ethic and adaptability in a fast-paced hotel environment.
- Significantly improved English proficiency through daily interaction with international colleagues and cultural immersion.

## EDUCATION

### Istanbul Atlas University

Bachelor of Science in Software Engineering (100% English)

Istanbul, Turkey

Sep. 2022 – June 2026 (Expected)

## CERTIFICATES & VOLUNTEERING

**Boğaziçi Defense Industry Summit:** Active Participant in defense tech seminars.

**IBB Young Volunteer Program:** Active Volunteer in community projects.