

# Hamza Abdullah

Ul. Rostafińskiego  
4 30-072  
Kraków  
+48 572 672 385  
[hamzaab25@gmail.com](mailto:hamzaab25@gmail.com)  
<https://github.com/killua173>

## EDUCATION

### Toros university, Turkey— *Software engineering*

October 2021 - June 2025,  
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### AGH University, Poland— *computer science*

February 2024 - June 2024  
Erasmus+

## PROJECTS

### Project Name — *Detail*

- **Script-for-Auto-Task-AI-Voice**
  - Developed a Python script for automating repetitive tasks using AI voice commands.
- **Scripts-for-AI-Project**
  - Created Jupyter Notebooks to transform data into labeled photos for AI applications.
- **Image-Processing-for-Remote-Sensing-Project**
  - Utilized Python for analyzing satellite images to detect and compare green areas, employing techniques such as stack bands.
- **Data-Analyzing-with-R-and-AI-Models**
  - Conducted data analysis and implemented AI models using R.
- **AI-Predicting-Milk-Quality**
  - Built a Python-based system for predicting milk quality.
- **Hotel-Reservation-Website-PHP**
  - Developed a full-stack PHP application for managing hotel reservations.
- **Car-Renting-Website-Node.js**
  - Engineered a Node.js and MongoDB-based platform for facilitating car rentals.
- **Flappy-Bird-Q-Learning**
  - Implemented Q-learning in Python to play Flappy Bird.
- **Reinforcement-Learning-Super-Mario-Bros**

## SKILLS

Programming Languages: C#, Python (AI, deep learning, scripts, image processing, data analysis), PHP, Java, R (data analysis)

Databases: SQL (MySQL, Microsoft SQL Server), MongoDB

Frameworks and Tools:  
Node.js

## LANGUAGES

Arabic - native

English- advanced

Turkish -intermediate

## SUMMARY

Skilled in Python and R for data analysis and AI development, with hands-on experience in web application programming. Known for problem-solving abilities and a passion for innovation. Seeking an internship to apply technical skills and contribute to real-world projects.

- Applied reinforcement learning techniques in Python for playing Super Mario Bros.
- **Web-Crawler-C#**
  - Created a robust C# web crawler with multi-threading and data encryption features using Microsoft SQL Server.
- **Library-Management-System-CSharp**
  - Developed a C# application for managing library operations with SQL database integration.

#### **Biometric Scripts:**

- **Keystrokes:** Script for capturing and analyzing keystroke dynamics.
- **Face Recognition:** Script for facial recognition biometrics.
- **Fingerprint:** Script for fingerprint recognition biometrics.
- **Retinal Vessels:** Script for analyzing retinal vessel patterns.
- **Voice Recognition:** Script for voice-based biometric authentication.
- **Gait:** Script for analyzing gait patterns for biometric identification.