

Sefa Kozan

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EDUCATION

Fırat University

Bachelor of Engineering Science

- CGPA: 3,58

Elazığ, Türkiye

Expected June 2029

EXPERIENCE

I don't have working experience yet.

PROJECTS

Penetration Testing Tool | Python

7 March – 10 June 2026

- Developed a Python/Flask-based isolation testing framework addressing vulnerabilities referenced in the OWASP Top 10 (2021) as part of a five-person software engineering team.
- Designed an SQLMap integration module that automated scan result processing by executing subprocesses and transforming outputs into
- Designed SSRF and Argument Injection modules with security regression test suites to detect and prevent critical vulnerabilities.

Happy Index | Python, TensorFlow, CNN

24 February – 5 April 2021

- During the COVID-19 pandemic period; It is a **TÜBİTAK 2204-A High School Students Research Project** that calculates the rate of **wearing a medical face mask correctly** and the **happiness index** with artificial intelligence.
- Trained a **CNN model on 9,000 CC0-licensed facial images** across three mask-wearing classes, achieving **96% test accuracy** in detecting correct, incorrect, and absent mask usage.
- Integrated three **pre-trained CNN models** to analyze real-time video streams for mask-wearing, gender, age, and happiness level.
- Generated statistical distributions of **mask-wearing compliance and happiness levels** across age groups, gender, and time intervals from real-time camera data.

TECHICAL SKILLS

Tech: Java, Kotlin, Go, Python

Core: OOP, Algorithms, Data Structures, Problem Solving, Clean Code

Testing & Tools: Git, Docker, Flask, Kanban, VS Code, IntelliJ IDEA

AI Tools: Claude, Gemini, Codex, Qwen

LANGUAGES

Turkish: Native

English: B1 (Reading: B2, Writing: A2, Listening: B1, Speaking: A2)