

M. MURAT BUDAK

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Education

Mälardalen University, Computer Science, Sweden

2025/01 – 2025/05

Currently at my exchange semester, after which I will graduate.

Working with Trakka Systems to deliver a working dehazing model on embedded hardware for helicopters.

Koç University, Computer Engineering & Science, Istanbul Turkey

2021 – 2025

Board of Directors at the CyberSecurity Club (KUSEC)

Ranked #1 in Turkey by Times Higher Education ([THE](#)) Rankings, 2025.

Work Experience

Vmoney, Backend Intern

2024/07 – 2024/09

- Migrated and configured a Spring Boot based backend server from HTTP to WebSockets for fast, real-time crypto trading.

Koc University IT, SecOps Part-time

2023/06 – 2023/11

- Saved \$8,000/year in licensing costs by deploying and configuring a free, Linux based vulnerability scanner.
- Collaborated with Deloitte on penetration tests, assisting in the identification and validation of critical vulnerabilities across a 10k+ device network.
- Reinforced cybersecurity best practices by coordinating with multiple university departments, including the HPC team (largest GPU cluster in Turkey).

Koc University, Programming With Python Course

2023/10 – 2024/01

- Taught data processing in Python to 100+ engineering students at the lab, and graded them.

Koc University, Introduction To Computer Science Course

2022/02 – 2022/06

- Designed and developed coding homeworks for 150+ CS students.

Projects

Jester Desktop App

- Built for macOS (Intel/ARM), Windows, and Linux packaging formats (AppImage, DEB, RPM).
- Migrated from Deno Oak to Java Spring Boot, deployed on Alpine Linux with PostgreSQL in Docker containers.
- Implemented a GitHub pipeline to auto-build and publish installers for all platforms.
- Puppeteer-based local server simulates browsing behavior to obfuscate true user interests from ad trackers.

KU Alchemists Game

- Implemented multiplayer over LAN using Java Sockets and Streams.
- Distributed tasks to 6 people and managed the repository. Approving merge requests and handling conflicts.

Technical Skills

Software: MS Office, Canva, Git & GitHub, Docker, MS Teams

Relevant Courses: Machine Learning, Database Systems, Computer Vision With DL, Operating Systems, Advanced Data Structures & Algorithms, DevOps

Experience With: 4+ years of daily driving Linux, SpringBoot, Python, NixOS, Java, JavaScript, C

Languages Known

English: Advanced (TOEFL IBT: 107/120), **Russian:** Native, **Turkish:** Native, **Azerbaijani:** Native