

MEHMET MURAT BUDAK

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Education

Koç University, Computer Engineering & Science

2021 – 2025

Currently in my senior year.

Baku Turkish Anatolian High School

2017 – 2021

First percentile in SAT.

Work Experience

Koc University, Programming With Python Course

2023/10 – 2024/01

- Participated in 2 laboratory classes per week, partially taught the course content, helped the students, and did the grading based on their performance. The content involved data processing in Python.

Koc University IT, SecOps Part-time

2023/06 – 2023/11

- Collaborated with Deloitte in their penetration tests, gaining important know-how experience and assisting in the identification and validation of critical vulnerabilities.
- Provided a high-quality alternative to a proprietary solution priced at over 8000\$ per year by successfully deploying and configuring a Linux VM equipped with advanced vulnerability scanning capabilities.
- Enabled software engineers to effectively patch vulnerabilities, enhancing network security by generating reports, utilizing automated tools and vulnerability scanners mentioned.

Koc University, Introduction To Computer Science Course

2022/02 – 2022/06

- Helped in the design and development of homework assignments for students.
- Attended laboratory sessions to provide targeted assistance to students, helping them grasp the subjects.

Projects

KU Alchemists Game

2023/06 – 2023/11

- A Java Swing implementation of the Alchemists board game by Czech Games.
- Worked in a team of 6, managed the Git repository, approved merge requests, and handled conflicts.
- Extensively applied GRASP patterns.
- Employed advanced agile development practices to streamline team workflow and project execution.
- Implemented multiplayer over network using only Java Sockets and Streams.

Technical Skills

Languages: Python (NumPy, Matplotlib, Pandas, Torch, various other data processing libraries), Java, JavaScript, C, Scheme/Lisp, Bash, LaTeX, SQL(MySQL, MongoDB, PostgreSQL)

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

Relevant Courses: Machine Learning, Database Systems, Intro To AI, Operating Systems, Advanced Data Structures & Algorithms

Languages Known

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

Interests and Hobbies

Amateur Fencing, Chess, Sailing, FOSS, Reading, Metal Music, Customizing Linux Distributions