

# MEHMET MURAT BUDAK

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## Education

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**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

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**Vmoney, Backend Intern** 2024/07 – 2024/09  
• Configured a backend Java SpringBoot API for fast, realtime crypto trading.

**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

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**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

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**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

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

## Interests and Hobbies

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Theatral Acting, Sailing, FOSS, Reading, Metal Music, Chess, Linux Distributions, Amateur Fencing