Burak YALÇIN — *Computer Engineering Student*

✉ burakyalcin.4510@gmail.com
📅 24.07.2002
⌨ github.com/burakyalcin10

📞 +90 507 083 37 94
🔗 yalcinburak.com
in linkedin.com/in/burakyalcin4510

Profile

I am a Computer Engineering student and I aim to continuously improve myself by closely following technological developments. I take care to apply what I have learned in my learning process in projects and take an active role in big organisations. My focus areas include **Software Engineering, Artificial Intelligence**, and **Full-Stack Development.**

Professional Experience

Educator, Mentor
T3 Foundation
02/2024 – present | Antalya
I contributed to secondary and high school students to gain basic and advanced technical skills by providing trainings in the field of engineering. By developing **STEM-oriented projects**, I provided students with problem solving, **analytical thinking** and teamwork skills. By mentoring students in robotics, **artificial intelligence**, programming and industrial production, I guided students in project-based learning processes.

Projects

TUBITAK 2209-A Project Coordinator
Raspberry Pi, Arduino, Flask, AI Model Tuning
I developed a smart irrigation system using sensors and **AI algorithms** to monitor soil in real-time, **optimizing water use** and **crop health**. Integrating aeropod technology ensured precise measurements and efficient irrigation.

Fibonacci Catalan Lattice Paths
Scientific Computing and Data Visualization
Used **Python** to analyze **lattice paths** with discrete mathematics and generating functions, exploring relationships among Fibonacci, Catalan, and Motzkin numbers, and their applications.

Erasmus+ KA154
I took part in the organisation of the **Career 4.0 Project through the Eyes of Young People** and received entrepreneurship trainings.

AI-Powered Lyrics Synchronization Player
A Python-based application for real-time lyrics display
Developed a Python-based application that synchronizes song lyrics with MP3 playback using **OpenAI Whisper** and **VLC Media Player**. Integrated **NLP and time-synchronization algorithms** for real-time lyric display.

Certificates

- UBMK 2024
- Erasmus+ KA 154
- Tübitak 2209A
- Java

Education

Akdeniz University
2022 – present | Antalya, Turkey
Bachelor's Degree
Computer Science & Engineering (GPA: 3.50)

Skills

Development
Python, Java, C#

Web Technologies
HTML, CSS, Angular, TypeScript

AI & Design
AI Prompting, Graphic Design

Organisations

Akdeniz Yazılım, Yapay Zeka ve Yaratıcılık Topluluğu (3Y)
Chairman of the Board of Directors
10/2023 – present | Antalya, Turkey
Founded by Computer Engineering students under the leadership of Akdeniz University Faculty of Engineering. The community organizes trainings, seminars, collaborations, and competitions to benefit both brands and students.

BİLMÖK
Vice President of the Organizing Committee
05/2024 – 02/2025 | Antalya, Turkey
The 21st BİLMÖK was held in 2025 in Antalya, hosted by 3Y. The congress covered AI, cybersecurity, software development, and technology ethics, bringing together students, academics, and industry representatives from 50+ universities to share knowledge and experiences.

UBMK
Organisation Officer
Antalya, Turkey

HUAWEI
Vice President
03/2024 – 02/2025 | Antalya, Turkey
Huawei Student Developers

Languages

English
Proficient

References

Prof. Dr. Ümit Deniz ULUŞAR,
Chair, Department of Computer Engineering, Akdeniz University
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