Ömer Dikyol

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ABOUT ME

I have had a passion for computer science from a young age, which has driven me to experiment with programs and algorithms. Instead of focusing solely on one area, I am dedicated to expanding my knowledge across various domains. As a result, I possess the ability to compete effectively in unfamiliar territories through thorough research and rapid learning. Whether working independently or collaboratively, I am determined to make a meaningful impact in any role I undertake.

Hobbies: Chess, Cycling, Gaming, Table tennis, Reading, Listening Music.

EDUCATION

Yeditepe University — Istanbul, Turkey
*B.Sc. in Computer Engineering (%100 Scholarship); **GPA: 3.66/4.00*** — *Sep 2020 − Jun 2024(est.)*

Alexandru Ioan Cuza University — Iasi, Romania
B.Sc. in Computer Science; — *Feb 2023 − Jun 2023*
- ERASMUS Program Participant. Collaborated with international students, fostering cross-cultural understanding and teamwork.
- Adapted to a new educational environment, demonstrating flexibility and the ability to thrive in challenging situations.

WORK EXPERIENCE

HAVELSAN AŞ — Istanbul, Turkey
Candidate Engineer - Test Automation — *Dec 2023 − Present*
- Advanced the automation process for the ADVENT Combat Management System, implementing enhanced testing protocols on diverse systems.
- Led initiatives to integrate Python and SikuliX in test automation, resulting in an increase in efficiency. Actively managed test cycles and issue tracking using Jira, and optimized CI/CD pipelines with Jenkins.
- Collaborated closely with the development team to identify and rectify system anomalies.

HAVELSAN AŞ — Istanbul, Turkey
Test Automation Intern — *Aug 2023 − Sep 2023*
- Contributed to the test automation process of ADVENT Combat Management System on different systems.
- Utilized technologies like Python, SikuliX, Jira, Jenkins while automizing the process, managing the tasks and running tests.

Wocopa — Istanbul, Turkey (Remote)
IT Team Leader — *Oct 2021 − Dec 2022*
- Comprehensive employee account management, platform development, and control operations for the company.
- Effectively led developer teams, demonstrating adeptness in website design and management..
- Fostering teamwork and leveraging IT skills, adeptly resolved challenges while showcasing strong problem-solving abilities and effective leadership.

RESEARCH EXPERIENCE

Yeditepe University Software Engineering Research Group — Istanbul, Turkey
Undergraduate Researcher — *Jan 2023 − Sep 2023*
- Collaborated with Prof. Dr. Mert Ozkaya.
- Yeditepe-SERG is intended for providing innovative solutions to the problems encountered in diverse industries (e.g., defense/military, automotive, manufacturing, healthcare, transportation/logistics, finance, telecommunications, e-commerce) from the perspectives of software engineering. By doing so, Yeditepe-SERG aims to maximise effectiveness (getting closer to the business goals) and productiveness (using less time, resources and staffs) in industry.

Yeditepe University AI Lab   Istanbul, Turkey
Undergraduate Researcher   *Jun 2022 – Aug 2022*

- Worked in dual projects utilizing Python libraries like TensorFlow, Keras, NumPy, and Pandas:
- Spearheaded the Stock Market Prediction initiative, leveraging economic news data and sentiment analysis (BERT) for precise categorization. Utilized this alongside BIST100 daily stock values to develop an LSTM model predicting future stock prices.
- Development of an Artificial Intelligence-based Cryptocurrency Bot project. Focused on Bitcoin price forecasting through diverse LSTM models, this endeavor aimed to provide accurate insights into the dynamic cryptocurrency market.

PROJECTS

Enhanced Therapeutic Engagement: A Gamified Arduino Glove System for Hand Rehabilitation

- Designed an innovative rehabilitation system integrating Arduino technology into a glove equipped with sensors to track hand movements.
- Created interactive rehabilitation games in Unity Engine driven by real-time sensor data to enhance patient engagement and adherence through a gamified approach. The system was evaluated with 27 volunteers, focusing on the correlation between glove-based measurements and manual assessments. Data processing and comparative analysis revealed the potential for improved patient motivation and highlighted the need for further refinement in sensor calibration and data interpretation.

YHT Conductor

- Developed a ticket reservation bot for high-speed trains, offering users the flexibility to select departure and arrival times, along with multiple hours within a day.
- Leveraged Python's Selenium and BeautifulSoup to conduct simultaneous checks for ticket availability. Once a ticket is found, the bot automatically selects, fills user data, reserves the ticket, and notifies the user on Discord.

The Escapade Game | *GitHub*

- A Unity Engine project which is the end-of-term project of Game Design course.
- "The Escapade" is a captivating 3D puzzle game created using Unity Engine. Set in a mysterious world, players must solve puzzles and complete minigames to progress through levels. With its low-poly art style, the game offers a visually unique experience. Explore immersive environments, unlock secrets, and test your intellect in this captivating adventure where every puzzle brings you closer to freedom.

TECHNICAL SKILLS

Programming: Python, C, C++, Java, C#, JavaScript, TypeScript, PHP, HTML, CSS, MySQL, MongoDB
Frameworks and Libraries: Node.js, Laravel, NumPy, Pandas, TensorFlow, Keras, Selenium, BeautifulSoup
Technologies: Git, Unity Engine, Unreal Engine, SikuliX, Jira, Jenkins

SOFT SKILLS

Languages: Turkish (Native), English (B2)
Core Competencies: Teamwork, Adaptability, Problem-solving, Time Management, Leadership, Critical Thinking, Creativity, Flexibility, Resilience, Decision-making
Interpersonal Abilities: Collaboration, Attention to Detail, Adaptability, Empathy, Collaboration, Active Listening, Initiative, Negotiation
Additional Skills: Multitasking, Conflict Resolution, Analytical Thinking, Integrity, Networking, Self-Motivation

REFERENCES

- **Adrian Iftene:** Professor, PhD, Faculty of Computer Science "Alexandru Ioan Cuza" University of Iasi, Romania, adiftene@info.uaic.ro, 004-0232-201091 *Reference Letter*

- **Tacha Serif:** Professor, PhD, Faculty of Engineering, Computer Engineering Department, Yeditepe University, Istanbul, Turkey, tserif@cse.yeditepe.edu.tr