

Ali Emre Kaya

+90 530 897 0567 | aliemrekaya239@gmail.com | [linkedin.com/in/aliemre2023](https://www.linkedin.com/in/aliemre2023) | github.com/aliemre2023

EDUCATION

Istanbul Technical University

Bachelor of Computer Engineering

- 3th grade, GPA: 3.1
- Entrance ranking: 1706 (in about 2 million)

Sariyer, Istanbul

Sep. 2021 – present (June 2026 est.)

EXPERIENCE

Akbank

Software Intern

- Developed a Python script that autonomously generates test cases for Java files using Copilot, which greatly enhanced the efficiency of our testing process.
- Throughout the project, I faced numerous challenges and discussed them with my mentors. Together, we worked through these issues and found effective solutions.

Intern

- Campaign preparation and editing were carried out for more than 10 million customers.
- Accuracy scanning was performed on the campaigns using SQL basics.

January 2024 – February 2024

ITU ACM AlgoTeam

Team Member

- Contributed to the organization and execution of algorithm courses.
- Tested and reviewed questions and supported the preparation process for algorithm competitions like algocomp.

Maslak, Istanbul

September 2023 – present

PROJECTS

Unimals | *TypeScript, Next.js, Flask, PostgreSQL, Socket.io, AWS S3*

- Engineered a full-stack social networking platform for university students using Next.js with PrimeReact components for responsive and accessible UI design.
- Designed a modular backend architecture using Flask Blueprints for RESTful APIs, managing user data and file storage with PostgreSQL and AWS S3.
- Implemented real-time messaging system with Socket.io, storing conversation history in PostgreSQL database.

Driver Control | *Python, OpenCV, DeepFace, PySide6 (Qt)*

- Developed a user recognition system using an OpenCV model to allow registered users to drive the car.
- Implemented a risk assessment algorithm that calculates a risk ratio based on the driver's current emotion and historical driving data.
- Integrated a continuous learning mechanism that retrains the driver's recognition model after every drive to keep the system updated.

ATM Simulation | *Java, SQLite, JUnit, PowerMockito, JDBC*

- Developed a Java-based system with SQLite integration for managing customer and storage data, ensuring seamless data handling and persistence.
- Implemented unit tests using JUnit and PowerMockito, achieving high test coverage by mocking external dependencies such as email sending and database interactions.
- Created robust functionalities for email drafting and sending using JavaMail while ensuring data consistency through comprehensive CRUD operations in the database.

Trade Bot | *Python, Pandas, Matplotlib, Selenium, Tensorflow, Yfinance*

- Company balance sheets and news were captured and evaluated by web scraping.
- Using the company's past information, future data was determined with the sequential model.
- Different types of traders were set up and their purchases were saved for future checking.

NBA Database | *Next.js, Python, SQLite, PrimeReact*

- Optimized database design by applying normalization techniques in SQLite, ensuring data consistency while leveraging teamwork and problem-solving strategies to overcome challenges.
- Developed a user-friendly and visually appealing frontend using PrimeReact, enhancing user experience and accessibility.
- Implemented robust and modular backend APIs with Flask Blueprints, enabling seamless interaction between the frontend and database.

TECHNICAL SKILLS AND CERTIFICATIONS

Languages and Tools: Python, C/C++, Java, HTML/CSS, JavaScript, SQLite, Git, Docker, Next.js, Flask, TypeScript, PostgreSQL, AWS S3, Socket.io

Certifications: Commencis - Testing | inzva - Algorithms | Global AI Hub - Deep Learning | Turkcell - Machine Learning

PERSONAL INFORMATIONS

Languages: Turkish(Native), English(B2), Japanese(A1)

Hobbies: Painting, Trumpet, Guitar, Software, Films and TV Series, Dancing (Salsa, Bachata)