# Ediz Arkın Kobak

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## SKILLS SUMMARY

- **Web Development**: Java Spring Boot, HTML, CSS, React, TailwindCSS
- **Software Development**: Flask, FastAPI, Node.js, .NET
- **Database Systems**: MySQL, JDBC, PostgreSQL, Redis, SQLite
- **Data Science**: Python, Numpy, Pandas, Seaborn, Scikit-Learn
- **Deep Learning / Gen AI**: PyTorch, TensorFlow, Prompting
- **DevOps and Tools**: Docker, Docker Compose, Git, GitHub
- **Creative Tools**: Adobe Photoshop, Illustrator, Canva, LaTeX

## EDUCATION

- **Izmir University Of Economics** — Izmir, Turkey
  *B.Eng. Computer Engineering; GPA: Honour student with **3.41*** — *October 2022 - June 2026*
  Current class: 4

  ***Courses:*** *Data Structures and Algorithms, Database Systems, Operating System Concepts, Automata Theory and Formal Languages, Computer Networks, Fundamentals of Microprocessors, Principles of Software Engineering*

  - **Computer Engineering Department Representative** *(2024 - Present)*: Represented the computer engineering student community as the Department Representative, facilitating effective communication with management and supporting departmental initiatives. Strengthened leadership and communication skills through active engagement in organizational activities.
  - **Student Council Member** *(2023 - Present)*: Represented the school community as a Student Council Member, addressing student concerns, advocating for their needs, and driving initiatives to enhance the overall school experience.

- **Samsun Çizgiüstü Fen Bilimleri Science High School** — Samsun, Turkey
  *Final Grade: 96.81* — *September 2017 - June 2021*

  ***Initiatives:*** *Participated in intra-city and inter-city MUN conferences, contributed to organizing MUN events, and played active roles in various theater productions.*

## WORK EXPERIENCE

- **TÜBİTAK UZAY - Space Technologies Research Institute** — Ankara, Turkey
  *Software Developer Intern* — *June 2025 - July 2025*
  Technologies-Tools: Java, Python, Docker, React, TailwindCSS, Flask, PostgreSQL, Git

  - **MultiCommSim Development**: Designed and implemented MultiCommSim, a TCP-based communication simulator enabling multiple client-server peers over a single IP and port using Dockerized containers. Authored requirements and design documents, implemented backend logic in Java, and developed a modular React + TailwindCSS UI.
  - **System Optimization**: Led the optimization phase by decentralizing routing logic from a central router to individual containers, improving scalability and simplifying integration with satellite communication simulators. Documented the updated architecture in an Optimization Report.
  - **PyDBControl Project**: Developed PyDBControl, a modular Python database library for PostgreSQL. Refactored the codebase into scalable components, added centralized logging, dynamic SQL handling, and finalized the project as an installable Python package with a comprehensive Final Delivery Report.

- **Izmir University of Economics** — Izmir, Turkey
  *Undergraduate Teaching Assistant* — *March 2025 - June 2025*

  - **Teaching Assistance**: Providing academic support for SE 116 - Introduction to Programming II, assisting students in understanding Java and Object-Oriented Programming (OOP) concepts.
  - **Programming Guidance**: Guiding students through programming exercises, debugging code, and reinforcing fundamental programming principles to enhance their learning experience.

- **TRMekatronik - System Design Department** — Ankara, Turkey
  *Software Developer Intern* — *July 2024 - August 2024*
  Technologies-Tools: C++, Qt, QtCreator

  - **Automation Development**: Automated software testing for ground tests of defense systems by designing and implementing test scripts. Improved efficiency, reduced errors, and accelerated testing cycles.
  - **Test Reporting Optimization**: Refined the process to generate reports from automated tests, leading to an enhancement in report clarity and accuracy.

## PROJECTS

- **MultiCommSim**
  *TÜBİTAK UZAY Internship*                                                     *Summer 2025*
  Technologies-Tools: Java, Docker, React, TailwindCSS, Flask
    - Designed and implemented a TCP-based communication simulator enabling multiple client-server peers over a single IP and port using Dockerized containers.
    - Authored requirements and design documents, implemented backend logic in Java, and developed a modular React + TailwindCSS UI.
    - Delivered an Optimization Report after decentralizing routing logic into individual containers, improving scalability and integration with satellite simulators.

- **PyDBControl**
  *TÜBİTAK UZAY Internship*                                                     *Summer 2025*
  Technologies-Tools: Python, PostgreSQL
    - Developed PyDBControl, a modular Python library for PostgreSQL database operations with centralized logging and dynamic SQL handling.
    - Restructured the codebase into scalable components (connection, execution, table management) and finalized the project as an installable Python package.
    - Authored a comprehensive Final Delivery Report and validated the library through external testing environments.

- **OmnIDE**
  *CE 316 (Programming Paradigms)*                                              *Spring 2025*
  Technologies-Tools: React (TypeScript), FastAPI, Electron, SQLite, TailwindCSS
    - Developed an integrated assignment management environment featuring assignment creation, batch submission evaluation, and result tracking.
    - Implemented a cross-platform Electron application with React + TypeScript frontend, FastAPI backend, and SQLite database; automated student code evaluation with output comparison.

- **Class Assignment System**
  *SE 302 (Principles of Software Engineering)*                                 *Fall 2024*
  Technologies-Tools: SQL, SQLite, Java, JavaFX
    - Collaborated on optimizing course assignment using the Best-Fit algorithm. The system imports data from CSV files into an SQLite database, handles course management, scheduling, and lists students and schedules. Developed a user-friendly desktop application.

- **BOOKSHOOK**
  *CE 216 (Fundamental Topics in Programming)*                                  *Spring 2023*
  Technologies-Tools: Java, JavaFX
    - Developed and deployed a desktop library management application named BOOKSHOOK for the course project for CE 216, which handles book addition, editing, deletion, cover management, and supports importing/exporting libraries in JSON format.

## LANGUAGES

- **English**: C1
- **German**: A2
- **Turkish**: Mother Tongue

## RECOMMENDATIONS

Available upon request.