



# Davut Çağrı Akbıyık

Java Backend Developer

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## ABOUT ME

I am a fourth-year Computer Engineering student at Khazar University with two years of professional experience in Java backend development. I have been developing myself in this field, primarily in Java, since my early years of high school. I have experience building RESTful APIs and backend services using Java, Spring Boot, Spring Security, JPA/Hibernate, and PostgreSQL. I have also worked with Docker and Kafka in backend projects. Alongside backend development, I am highly motivated to improve my knowledge of artificial intelligence. With a foundation in Python, I am actively learning AI technologies and exploring how they can be integrated into real-world software systems.

Beyond software, I have a strong interest in 3D modeling, 3D printing, and electronics, and I continue to develop myself in this area through hands-on robotics projects, combining hardware design with embedded and software development.

## PROFESSIONAL EXPERIENCE

### Codevisor Bilişim Çözümleri

May 2024 - Present

Java Backend Developer | Junior

Worked on the backend development of two mobile applications using Java and Spring Boot. Developed and maintained RESTful APIs to support various mobile features, including user-related operations and data management. Contributed to improving API reliability through proper error handling and clean code practices while collaborating with the development team.

#### Project: T-Point (App Store & Google Play)

- Contributed to RESTful backend services for a tax-free refund platform using Java and Spring Boot.
- Implemented user account and refund-related operations using layered architecture and JPA/Hibernate.

### Testinium

Jul 2023 - Sep 2023

Java Backend Developer | Intern

Worked within a software development team and gained experience with professional development practices and teamwork. Improved backend development skills using Java and Spring Boot. Learned and applied fundamental software design principles including SOLID and common design patterns. Gained experience with both relational and non-relational databases, and developed familiarity with technologies such as Kafka, Redis, and Docker during the internship.

## PERSONAL PROJECTS

### Student Forum | [GitHub](#)

- Built a full-stack campus discussion platform (Spring Boot + React) where students publish posts, comment on discussions, search for and discover other students, and manage their profiles.
- Implemented JWT-based stateless authentication with HttpOnly cookies, BCrypt password hashing, and protected routes on both backend and frontend.
- Integrated Elasticsearch for prefix-based user search and designed paginated post/comment feeds using Spring Data JPA.
- Designed the REST API with Jakarta Validation, centralized exception handling, and interactive Swagger/OpenAPI documentation.
- Independently built the backend architecture, API design, security, persistence, and search; developed the frontend through AI-assisted collaboration with Claude Code based on a defined API contract.

### F1 Engineer Assistant | [GitHub](#)

- Built an AI-powered race engineer assistant that listens to live F1 game telemetry over UDP and parses raw binary packets into structured car data in real time.
- Designed a multi-threaded architecture that concurrently streams telemetry (speed, throttle, brake, tyre and brake temperatures, RPM, gear, DRS) to a live dashboard while running periodic AI analysis in the background.

- Integrated the Google Gemini API to generate real-time strategy insights and natural-language answers based on live telemetry summaries.

PUBLICATIONS

Soil Moisture-Based Smart Irrigation System for Efficient Water Usage in Agriculture

Co-authored during university studies at Khazar University.

[ResearchGate](#)

CERTIFICATIONS

Data Analysis with Python — IBM (Coursera) Apr 2026

Learned to import, clean, analyze, and visualize data in Python using pandas and NumPy.

Programming for Everybody (Getting Started with Python) — University of Michigan (Coursera) Dec 2025

Learned Python fundamentals: variables, loops, functions, and basic data structures.

Java Developer Course — Udemy Jun 2023

Learned core Java and object-oriented programming fundamentals.

Developing Web Applications with Spring and React — Udemy Mar 2023

Learned to build full-stack web applications with a Spring Boot backend and a React frontend.

DigiEduHack Hackathon — Participant — DigiEduHack Dec 2023

Collaborated in a team to co-create solutions to digital education challenges within a limited time frame.

EDUCATION

Khazar University 2022 - Present (Expected Sep 2026)

Bachelor of Science in Computer Engineering (English)

Military Service

Deferred (postponed for education)

VOLUNTEERING

Formula 1 Azerbaijan GP 2023, 2024, 2025

Access Control Team — 2023

- Checked the tickets of guests entering the Fan Zone to verify authorized access.
- Worked closely with the team to manage guest flow smoothly and efficiently.

Spectator Service Team — 2024

- Answered guests' questions in the Fan Zone and provided them with on-site support.
- Assisted other teams whenever additional support was needed.

Spectator Service Team (Concert Hall) — 2025

- Directed guests around the venue and supported them with their questions, similar to the Fan Zone role.

LANGUAGES

Turkish — Native or bilingual proficiency

English — Professional working proficiency

Azerbaijani — Professional working proficiency

SKILLS

|             |                 |                           |                  |          |
|-------------|-----------------|---------------------------|------------------|----------|
| Java        | Spring Boot     | REST APIs                 | PostgreSQL       | Kafka    |
| JavaScript  | Spring Security | Microservice Architecture | MySQL            | Redis    |
| Python      | React           | Docker                    | MongoDB          | RabbitMQ |
| 3D Modeling | 3D Printing     | Electronics               | Microsoft Office |          |

HOBBIES

Skiing · Swimming · 3D Printing · Guitar