

# FATMA ZEHRA AYTAS

## COMPUTER ENGINEERING

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I am an individual focused on improving myself in the fields of technology and engineering. I have developed projects in areas such as cybersecurity, gaming, and artificial intelligence. I am a team player and have demonstrated my problem-solving skills in various projects and competitions. I have a strong interest in learning and applying new technologies. My goal is to further develop the knowledge and experience I have gained and become a professional who creates innovative solutions and adds value in the technological world.

## EDUCATION

Istanbul Aydın University | Istanbul, Turkey  
Bachelor of Science in Computer Engineering (100% Eng.)

2022-2027

3,53 / 4

## EXPERIENCE

KENT TEKNİK KİMYA CONSTRUCTION INDUSTRY FOREIGN TRADE LIMITED COMPANY

JULY 2024 - ...

- I worked on the TSE process, focusing on the software of the machines used and the collection and analysis of data. I developed recommendations to speed up the TSE process based on the results obtained.
- I identified gaps in the ERP system used for product tracking and contributed to the development of a new ERP system

## EVENTS

### Tübitak: Algorithmic Modeling of Multiplicative Rings – Cybersecurity

The project "Algorithmic Modeling of Multiplicative Rings" focuses on the algorithmic analysis and modeling of multiplicative rings. The project aims to explore the application of these mathematical structures in fields such as cybersecurity, cryptography, and education. The properties and behaviors of multiplicative rings are examined through algorithms, with the goal of developing innovative solutions to improve cryptographic methods and strengthen security protocols.

### Teknofest: Technological Applications in Psychology Competition | TULPAR / KutAI

Stress, anxiety, and concentration issues affect academic and social lives. Traditional methods can be tedious, and many avoid seeking help. At this point, together with the team I lead, we are offering an innovative solution to develop psychological skills using the gamification approach. Our project aims to improve users' psychological skills in a fun and interactive way by working with modern technologies such as gaming, web, artificial intelligence, and data analytics.

### Bor-Eye: AI-Powered Border Security System

Bor-Eye is an AI-powered border security system developed during the Ideathon competition organized by T3 Foundation. It analyzes satellite and drone imagery to detect border violations and sends alerts to security forces. Using advanced data analysis and AI, it categorizes border movements and identifies threats, aiming to reduce smuggling and illegal crossings. As the Bor-Eye team, we placed 3rd in the Ideathon competition!

### RBAC-Based ERP Software

This ERP software, developed using Java and SQL, utilizes the Role-Based Access Control (RBAC) model to manage user permissions across departments. It ensures secure data management, scalability, and ease of maintenance, helping businesses efficiently manage personnel, accounting, sales, and operations.

### Java 2D Games: Tic-Tac-Toe - Platformer

**Tic-Tac-Toe:** The game logic was implemented in a single class, without visual components, using only code.

**2D Platformer Game:** Developed with separate images for characters and backgrounds, organized into multiple packages. It includes basic platformer mechanics like character movement.

These projects were my first games, helping me grasp object-oriented programming (OOP) and game development concepts

## CERTIFICATIONS

**DEFENSE INDUSTRY ACADEMY** - Milli Yetkinlik Hamlesi Camp

**BTK ACADEMY** - Buffer Overflow Vulnerabilities and Exploit

Development - Certificate No: 9Xrtq0084n

**BTK ACADEMY** - DoS / DDoS Attacks and Protection - nKqhoMZ60W

**BTK ACADEMY** - Introduction to Cybersecurity - 4qguZPn2bD Se

**BTK ACADEMY** - SIEM Fundamentals - WJ1SMKPWLZ

**BTK ACADEMY** - Social Engineering and Phishing - yjahJyIMJ

**BTK ACADEMY** - Telecommunications Systems Security - NowfrKeYd9

**TURKCELL ACADEMY** - Introduction to Cybersecurity

**LINKEDIN LEARNING** - The Cybersecurity Threat Landscape

**LINKEDIN LEARNING** - Cybersecurity Foundations

**LINKEDIN LEARNING** - Essentials of Sustainability: Core Concepts

**LINKEDIN LEARNING** - Productive AI: The Evolution of Thoughtful

Online Search

**TURKCELL ACADEMY** - Pentesting

**TURKCELL ACADEMY** - Natural Language Processing

**TURKCELL ACADEMY** - Deep Learning ANN

**TURKCELL ACADEMY** - Deep Learning CNN

**TURKCELL ACADEMY** - Application-Based Deep Learning

**TURKCELL ACADEMY** - Introduction to Data Science and Artificial Intelligence

**BILGEIS** - AI for Everyone I - c00a3ef0-de57-11ef-bf0a-f91bc7d36f86

**BILGEIS** - AI for Everyone II - d5428760-de50-11ef-beb7-cb0634fb1fd