

# SEYİD BERAT ERGÜN

Ankara, Turkey

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## PROFESSIONAL SUMMARY

Third-year Computer Engineering student at TED University with strong foundations in algorithmic analysis, secure system design, and performance-oriented software engineering. Experienced in developing scalable applications and integrating backend-driven architectures, supported by structured debugging and system optimization practices. Actively engaged in advanced algorithm training, cloud computing programs, and academic cybersecurity initiatives. Research interests focus on artificial intelligence systems, security-aware software architectures, and resilient computing infrastructures, aiming to develop intelligent, reliable, and high-performance secure systems.

## Education

### Ted University

*Bachelor of Science in Computer Engineering*

**Location:** Ankara, Turkey

**Exp Graduation date:** **June 2027**

- Course Highlights Data Structures & Algorithms (Java), Software Engineering, Concepts of Programming Languages, C Programming, Discrete Mathematics, Probability & Statistics, Database Systems, Digital Logic & FPGA Design
- Awards/Honors: Active Member of TEDU Cybersecurity Society and TEDU Science and Technology Society.

**High School Name** *Aydınlıkevler Anadolu Lisesi, Ankara, Turkey*

**Location:** Ankara, Turkey

**Graduation date:** **June 2022**

- Awards/Honors: High Honor Certificate (Awarded for 8 consecutive semesters).
- Superior Achievement Award

## Relevant Experience

Tusdata – Software Development Intern

Summer 2025 (20 Business Days) | Ankara, Turkey

Tusdata is one of Turkey's leading medical education and examination preparation institutions, serving nationwide candidates in healthcare specialization programs.

- Developed cross-platform mobile application components using Dart and Flutter with emphasis on modular UI structure and reusable widget architecture
- Integrated frontend modules with backend services through API-driven client-server communication, ensuring structured data exchange and state consistency
- Implemented structured debugging processes and scenario-based testing to identify logic inconsistencies and runtime issues
- Participated in system-level validation and edge-case analysis to improve application robustness and reliability
- Optimized client-side data handling and rendering performance to enhance responsiveness under variable usage conditions
- Translated Figma-based UI/UX designs into production-ready, responsive interfaces
- Contributed to code refactoring and structural improvements to support maintainability and scalability

## Leadership Experience

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### TEDU Cybersecurity Society – Ankara, Turkey (Active Member | 2023–Present)

- Participated in structured workshops on secure system architecture and vulnerability assessment
- Contributed to peer-level discussions on algorithmic security reasoning and defensive programming practices
- Engaged in collaborative technical problem-solving sessions focused on system-level awareness.

### Competitive Table Tennis – Regional Level, Ankara (Team Captain | 2015-2023)

- Led team coordination and strategic preparation during regional competitions
- Achieved 1st place rankings in Ankara regional tournaments
- Mentored junior teammates and supported match-planning strategies
- Developed high-pressure decision-making ability, discipline, and performance resilience transferable to engineering research environments

## Additional

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- **Languages:**

English (Advanced / Professional), Turkish (Native), Italian (Elementary A1–A2)

- **Technical Skills:**

Programming Languages: Java (Advanced), Dart/Flutter (Proficient), SQL/MySQL (Intermediate), C (Intermediate), Python (Foundational), VHDL (Intermediate)

- **Core Engineering Competencies:**

Algorithm Design & Complexity Analysis, Data Structures Implementation, Secure Software Design Principles, Object-Oriented Architecture, Backend–Frontend Integration, API-Based Communication, Structured Debugging & Testing, Performance Optimization, Scalability & Maintainability Principles, Cloud Computing Fundamentals

- **Tools & Platforms:**

IntelliJ IDEA, VS Code, Android Studio, Xilinx ISE, Arduino IDE, Huawei Cloud Platform, GitHub, Microsoft Office, Figma

- **Certifications & Academic Training**

Software Engineering: Implementation and Testing - The Hong Kong University of Science and Technology | May 2026

Software Engineering: Software Design and Project Management - The Hong Kong University of Science and Technology | May 2026

Software Engineering: Modeling Software Systems using UML - The Hong Kong University of Science and Technology | May 2026

CS50x - Harvard University | April 2026

Java Data Structures & Algorithms + LeetCode Exercises | March 2026

Huawei Cloud Developer Training Program | December 2025

Computer Science: Programming with a Purpose - Princeton University (Coursera) | October 2024

Object-Oriented Programming with Java - Universidad de Palermo (Coursera) | November 2024

Academic Production and Institutional Processes with Artificial Intelligence - TED University

- **Hobbies / Interests**

Artificial Intelligence Systems & Large Language Models; Cybersecurity & Secure Architecture Analysis

Algorithmic Problem Solving; Quantum Computing & Theoretical Computer Science

Distributed Systems & Cloud Infrastructure Exploration; Technical Research Reading & Engineering Case Analysis

High-Discipline Training, Analytical Thinking & Technical Collaboration