



HİKMETHAN KOLAY

I am a computer engineering student passionate about learning new technologies.

Rize, Türkiye

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EDUCATION

Recep Tayyip Erdoğan University - Rize, Turkey

2022 - 2027

BSc in Computer Engineering 3.0 / 4.00 (Current GPA)

SKILLS

Technical Skills

- Java
- Junit
- VHDL
- Spring Boot
- JavaScript
- NodeJS
- ExpressJS
- React
- HTML
- CSS
- C
- Gtest
- MySQL

Software's/Tools

- Visual Studio Code
- Visual Studio
- IntelliJ
- GitHub Desktop
- CMake
- Maven
- Docker
- WSL
- Git

Languages

- English : Upper Intermediate
- Turkish : Native

Soft Skills

- Problem Solving: Solved various problems encountered during projects, some lasting days.
- Time Management: Managed project schedules and ensured everything was on time.
- Adaptability: Changed roles and tools according to the needs of the team and project.

WORK EXPERIENCE

Recep Tayyip Erdoğan University, Rize-Turkey

08/2025 – Present

TÜBİTAK 1001 Scholarship Project

- I am currently working as a research fellow on an **AI project** supported by **TÜBİTAK 1001**. Within the project, I am responsible for data collection, organization, and storage processes. My work focuses on improving data quality, creating data structures suitable for model training, and developing sustainable data management infrastructures.

02/2025 – 08/2025

2247-C Intern Researcher Scholarship Program

- As a Research Intern in the **2247-C STAR Program**, I am working on an AI research project at Recep Tayyip Erdoğan University. I contribute to web application design and am solely responsible for backend development using **Spring Boot**, building APIs and managing database interactions.

PROJECTS / PAPERS / AWARDS

Recep Tayyip Erdoğan University, Rize-Turkey

08/2024 – 02/2025

Microcontroller Design

- Designed and implemented a low-cost, energy-efficient microcontroller based on **CV32E40P RISC-V core** architecture with optimized hardware-software integration
- Developed **RTL design and functional verification** using **SystemVerilog and VHDL**, implementing system components including memory structures, bus matrices, and peripheral units.
- Conducted comprehensive verification using **UVM (Universal Verification Methodology)** with SystemVerilog testbenches and performed **static timing analysis (STA)**.

- Integrated specialized hardware accelerators including **LDPC encoder** compatible with 5G New Radio standards, reducing processor load and enhancing system efficiency.

08/2024 – 02/2025 **SafeScript**

- Developed a system to evaluate drug suitability, interactions, and compatibility with patient health and allergy history, aiding doctors in prescribing the most appropriate medication.
- Led the backend development using **Node.js with Express.js**, ensuring secure and efficient data processing.
- Worked closely with team members to design a user-friendly frontend with **JavaScript, HTML and CSS**.
- Qualified for **TÜBİTAK 2209-A** and participated in the **finals of Teknofest 2024** for the Technology for Humanity category.

EXTRA CURRICULAR ACTIVITIES

2023- present	Recep Tayyip Erdoğan University – Society of Computer Engineers
2024- present	Recep Tayyip Erdoğan University – Society of Artificial Intelligence and Cyber Security (Board Member since 2025)