

MUHAMMED EMIN AKBULUT

Computer Engineering Student | Full Stack Developer

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SUMMARY

4th-year Computer Engineering student at Recep Tayyip Erdogan University. Developing projects in full-stack web development, computer vision, backend architecture, and database systems. Participated in TÜBİTAK-funded research projects, gained internship experience at two institutions, and completed numerous academic and personal projects.

EXPERIENCE

Software Development Intern

Clinyo Software — Remote

June 2026 – August 2026

- Developed modern web interfaces using React and Next.js.
- Designed and implemented RESTful APIs with Node.js and PostgreSQL.
- Set up and managed containerized development environments using Docker.
- Designed database schemas and managed migrations using Prisma ORM.
- Participated in version control and team collaboration with Git/GitLab.

Information Systems Intern

RTEU IT Department — Rize, Turkey

June 2025 – August 2025

- Gained hands-on experience with university internal systems and infrastructure.
- Participated in system administration, network configuration, and technical support.
- Followed maintenance and update processes of institutional software systems.

PROJECTS

TÜBİTAK 2209-B — Autonomous Drone System for Early Flood Detection

TÜBİTAK 2209-B Industry-Oriented Research Project | Accepted

- Developed autonomous drone system with image processing and AI (AI&SEC; Lab).
- Designed to provide real-time early warning for flood and flash flood disasters.
- Actively contributed to research and development as a team member.

Real-Time Parking Slot Detection System

github.com/Muhammedeemin/parking-slot-detection | Python • OpenCV • NumPy

- Applied computer vision techniques on live video from a static camera.
- Visualized empty/occupied parking slots in real-time with green/red color coding.

Smart Campus Ecosystem Management Platform

github.com/Muhammedeemin/web-programlama-final-proje-frontend | React • Node.js • PostgreSQL • Docker

- Built meal reservation, location-based attendance (map), and QR code verification modules.
- Achieved 75%+ test coverage using Jest and React Testing Library.

Text-Based Sentiment Analysis with MATLAB

github.com/Muhammedeemin/Text_Sentiment_Analysis_MATLAB | MATLAB • App Designer • ML

- Developed ML model classifying text as negative/neutral/positive.
- Designed an interactive GUI using MATLAB App Designer.

Perseus Admin Panel & Documentation System

Internship Project — Clinyo Software

- Developed corporate admin panel and documentation system during internship.
- Built full-stack application using modern web technologies.

Eclipse Java Maven & C++ CMake Project Templates

Academic Project — RTEU CEN207 | Java • Maven • C++ • CMake • JUnit • GoogleTest

- Java template: JUnit4 test coverage and Doxygen documentation pipeline.
- C++ template: GoogleTest, cross-platform (Windows/WSL/Linux) build system.

EDUCATION

B.Sc. Computer Engineering

Recep Tayyip Erdogan University — Rize, Turkey
4th Year Student | 2022 - Present

TECHNICAL SKILLS

Programming	C, C++, Java, Python, JavaScript, TypeScript, MATLAB
Web Technologies	React, Next.js, Node.js, HTML5, CSS3, REST API, Tailwind CSS
Databases	PostgreSQL, MySQL, Prisma ORM
DevOps & Tools	Docker, Git, GitHub, GitLab, GitHub Actions
Computer Vision	OpenCV, NumPy, Machine Learning, Image Processing
Other	Embedded Systems, IoT, CMake, Maven, JUnit, GoogleTest

CERTIFICATIONS

Digital Systems — Logic & Logic Circuits

Udemy • June 28, 2026

Introduction to Web Services

BTK Academy • October 9, 2025

Web Development with HTML5

BTK Academy • October 10, 2025

CSS Fundamentals

BTK Academy • October 15, 2025

LANGUAGES

Turkish (Native) • English (B1 — Preparatory Education Completed)