

**UMUT ABALI**  
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## EDUCATION

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<b>Istanbul Medeniyet University</b> Bachelor of Computer Engineering	Istanbul, TUR Expected Graduation: June 2026
• Courses: Data Structures, System Programming, Operating Systems, Deep Learning, Computer Vision, IoT, Compiler design	

## EXPERIENCE

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<b>Menatek Technologies</b> IT Support Intern	Istanbul, TUR March 2025 - May 2025
• Provided technical support for users, resolving hardware, software, and network issues. Configured and monitored network devices (routers/switches). Managed network performance, ensuring smooth operation. Maintained IT inventory accuracy via data entry. Performed and verified server backups weekly, adhering to security and backup protocols.	
<b>Princess Cruise</b> Public Areas Attendant	

Alaska, USA  
June 2025 - October 2025

- Work and Travel USA program participant. Developed professional communication and teamwork skills in international, fast-paced environment.

## PROJECTS

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<b>FrappeLLM</b>   <a href="#">GitHub</a>	Developed voice-driven RAG system for natural speech queries over PDF documents, achieving real-time response generation. Integrated Whisper (speech-to-text), LangChain (contextual retrieval), and Ollama (local LLM inference) for privacy-preserving, on-device processing without external API dependencies.
<b>Plate Detection</b>   <a href="#">GitHub</a>	
Built real-time license plate detection system using OpenCV, achieving 92%+ accuracy across diverse conditions. Implemented custom edge detection pipeline, character segmentation with contour analysis, and Tesseract OCR. Optimized for varying lighting, angles, and weather scenarios with preprocessing techniques.	
<b>Location Detection</b>   <a href="#">GitHub</a>	
Designed indoor localization system using Wi-Fi RSSI fingerprinting and Random Forest classification, achieving <2m positioning accuracy. Collected 1000+ signal samples across multiple zones, engineered signal strength features, and deployed trained model for real-time location tracking in GPS-denied environments.	
<b>Inter-Terminal Messaging</b>   <a href="#">GitHub</a>	
Developed secure peer-to-peer messaging system using TCP socket programming and AES-256 encryption. Implemented multi-threaded server architecture handling concurrent connections, custom protocol for message routing, and achieved <50ms latency in local network environments.	

## TECHNICAL SKILLS

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<b>Prog. Languages:</b> Python, C/C++ , SQL
<b>Frameworks &amp; Tools:</b> PyTorch, GCP, Docker, Git, LangChain, OpenCV ,
<b>Languages:</b> Turkish (Native), English (Professional Working Proficiency)