Akif Efe KONUKSEVER

Curriculum Vitae

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Professional Summary

Highly motivated and disciplinedSoftware Engineering student dedicated to continuous technical growth. Proven track record of solving complex problems in projects and expanding skills through professional certifications. Eager to leverage technical expertise and a results-oriented mindset to contribute effectively to RITECH's innovative goals.

Education

2025–Present **B.Sc. in Software Engineering**, *University of New York Tirana*, Tirana, Albania
- ○ Current Student.
- ○ Focus areas: Artificial Intelligence (AI), Machine Learning, Image Processing, Object-Oriented Programming (OOP).

2020–2024 **High School Diploma**, *Cezeri Yeşil Teknoloji Mesleki ve Teknik Anadolu Lisesi*, Ankara, Turkey
- ○ Specialization: Renewable Energy Technologies
- ○ Gained technical background in sustainable energy systems and engineering fundamentals.

Key Projects & Competitions

2024-2025 **Autonomous Vehicle Project**, *Teknofest*, Team Captain
- ○ Led the team in designing and developing an autonomous driving system for the national finals.
- ○ Managed the project timeline and coordinated tasks between software and hardware units.
- ○ Developed lane tracking and object detection algorithms using Python, C++, PyTorch and OpenCV.

2023 **Echo Sun Bank (Renewable Energy Project)**, *Teknofest*, Team Captain
- ○ Directed the team in the Technology for Humanity category to create a sustainable energy solution.
- ○ Designed the system architecture integrating solar energy panels with electronic control units.
- ○ Combined renewable energy principles with engineering solutions to maximize social impact.

2025 **International Robotics Competition**, *Robotic Tournament (Poland)*, Team Captain
- ○ Led the team representing the school in an international environment, competing in multiple categories.
- ○ Managed technical preparations for Drag Racing, Fast Line Follower, and Robot Tug of War categories.
- ○ Developed adaptive competition strategies and handled technical troubleshooting for diverse robotic systems under pressure.
- ○ Enhanced cross-cultural communication skills by collaborating with international teams.

2021 **Advanced Renewable Energy System**, *METEK III Competition*, Team Captain
- ○ Awarded 2nd Place in Turkey (National Ranking) among vocational high school projects.
- ○ Developed an advanced iteration of the "Echo Sun Bank" project with improved efficiency.
- ○ Focused on automation and optimization of the energy distribution algorithms.
- ○ Demonstrated leadership in engineering design and prototype presentation before the jury.

Notable GitHub Projects

2024-2025 **AtomAgent**, `github.com/aToom13/AtomAgent`, Open Source Project
- ○ Developed a framework for Autonomous AI Agents utilizing multiple LLM API providers.
- ○ Implemented a secure Docker Sandbox environment, allowing agents to execute code in complete isolation.
- ○ Designed a modular architecture to facilitate seamless integration of various AI models.
- ○ Technologies: Python, Docker, Agentic Workflows, API Integration.

2025 **AtomStudy (EdTech App)**, `github.com/aToom13/AtomStudy`, Private Project
- ○ Built a Flutter-based mobile app offering step-by-step AI solutions for photographed questions.
- ○ Integrated Firebase for backend services and Cloudflare for secure API key management.
- ○ Developed a personalization algorithm that analyzes student performance to suggest targeted video content.
- ○ Technologies: Flutter, Firebase, LLM Integration, Data Analysis.

2025 **AtomAI**, `github.com/aToom13/AtomAI`, Research Project
- ○ Created a custom training framework to experiment with LLM architectures and **BitNet**.
- ○ Implemented tokenization and neural network layers using PyTorch and NumPy for educational purposes.
- ○ Gained deep understanding of transformer models and model optimization techniques.
- ○ Technologies: Python, PyTorch, BitNet, Neural Networks.

Certifications & Workshops

2022–2025   **Future Technology Stars Program (3-Year Diploma)**, *DENEYAP Technology Workshops (T3 Foundation & TUBITAK)*
- Completed a 36-month intensive technical training program selected among top students.
- **Artificial Intelligence (8 Weeks):** Trained on machine learning algorithms and neural networks.
- **Electronic Programming & IoT (13 Weeks):** Developed smart systems connecting hardware to the cloud.
- **Advanced Robotics (12 Weeks):** Engineered complex robotic systems and autonomous mechanisms.
- **Software Technologies (12 Weeks):** Mastered advanced coding practices and application development.
- **Cybersecurity (8 Weeks):** Gained practical skills in network security and ethical hacking.
- **Energy Technologies (12 Weeks):** Studied renewable energy systems and power management.
- **Materials Science & Nanotechnology (7 Weeks):** Explored advanced material properties and production.
- **Design & Production (12 Weeks):** Learned industrial design principles and prototyping techniques.

2023   **International Branding Training Program**, *Ankara Development Agency*
- Completed training on global branding strategies and strategic marketing for products.

2022   **Cybersecurity Training Camp ("Future Hackers")**, *BTK Academy*
- Attended the specialized camp focusing on cybersecurity fundamentals and vulnerability analysis.

2023   **Digital Entrepreneurship Workshop**, *Ministry of National Education (MEB)*
- Participated in workshops designing digital entrepreneurship curriculum and startup ecosystems.

2019   **Applied Robotics & Coding Training (72 Hours)**, *TANAP Social Investment Program*
- Completed an intensive curriculum on algorithm design, logic programming, and robotic systems.

Experience

2022	**Engineering Intern**, *Kalyon PV*, Ankara, Turkey

- Collaborated with the technical team to perform **fault detection and troubleshooting** on industrial machinery.
- Operated production line equipment, ensuring operational efficiency and adherence to safety protocols.
- Participated in field operations, assisting in the logistical coordination and delivery of PV modules.
- Gained practical insight into large-scale manufacturing workflows and automation systems.

2021–2024 **Student Technician**, *Cezeri Production Unit (School Revolving Fund)*, Ankara, Turkey

- Manufactured and assembled electrical components, specifically **Rheostats** and **Transformers**.
- Conducted performance testing and quality control on produced units to meet commercial standards.
- Executed on-site **Solar Panel (PV) installations**, ensuring proper mounting and electrical connections.
- Applied technical engineering knowledge in real-world commercial projects.

Technical Skills

Languages	Python, C++, Dart, MicroPython, HTML, CSS
AI & ML	PyTorch, TensorFlow, OpenCV, LangChain, LLM Fine-tuning, Agentic Workflows
Embedded	Arduino, Proteus, Eagle, Circuit Design
CAD & Design	Fusion 360, AutoCAD, FreeCAD
DevOps & Cloud	Docker, Git, Linux, Firebase, Cloudflare