Berat Erol Çelik, Software Engineering Student

CONTACT

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Portfolio: https://beratcelikportfolio.vercel.app/

LINKS

Github : https://github.com/BerattCelikk
Linkedin : https://www.linkedin.com/in/berat-erol-%C3%A7elik-513915258/
Medium : https://medium.com/@beratcelikk02
Kaggle : https://www.kaggle.com/beraterolelk

PROFILE

Software Engineering student at Istanbul Aydın University with hands-on experience in AI/ML, Generative AI, cloud technologies, and backend development. I build and ship AI-driven full-stack solutions—my experience includes participating in hackathons and developing an ESG data visualization site using Python Dash for the Audi Development Camp. I maintain an active GitHub and project portfolio, combining technical engineering with creative video automation and editing to deliver polished, production-ready features. Currently seeking internships or junior software engineering roles to scale AI applications.

EMPLOYMENT HISTORY

Software Developer, E-Power Mekanik | Feb 2026-Present

- Designed and deployed AI-integrated backend solutions to optimize internal software processes and enhance system scalability.
- Developed advanced n8n automation workflows to synchronize complex engineering datasets across diverse cloud infrastructures.

Campus Ambassador, Etkin Kampüs | Nov 2025-Present

Community Board Member, Bilgisayar Kavramları | Oct 2025-Present

Software Team Member, GökTulga Teknofest | Oct 2025-Present

- Developed high-speed telemetry transmission protocols and flight control logic algorithms for UAV systems during Teknofest competition cycles.
- Established n8n-based automations to analyze pre-flight diagnostic data and telemetry logs, significantly reducing test preparation times.

Campus Ambassador, Griply Team | Oct 2025-Present

Campus Ambassador, MisafirinVar | Oct 2025-Present

Software Developer, Tulpar-FF Teknofest | Sept 2025-Feb 2026

- Engineered LiDAR-based autonomous flight architecture and navigation systems for the TULPAR disaster drone to enable mapping in GPS-denied environments.
- Incorporated AI-driven computer vision models into drone software for real-time target identification and disaster zone analysis.

Software Intern, E-Power Mekanik | Nov 2025-Feb 2026

- Developed the modern backend architecture and high-performance user interface for the corporate platform (epowermekanik.com).
- Integrated AI-powered support assistants to automate technical documentation access and streamline initial customer inquiry handling.

ESG Engineer (On-Site), Audi Development Camp | Jul 2025-Jul 2025

- Analyzed ESG metrics using AI-based data modeling to identify key areas for carbon footprint reduction in automotive manufacturing.
- Designed automated data systems to parse and report environmental impact data for sustainability compliance monitoring.

User Acquisition Team Member, FutureAction Ai | Oct 2025-Dec 2025

IT Intern, TNC Group Şirketleri | Jul 2025–Aug 2025

- Optimized IT support processes by creating n8n automation scripts for ticket categorization and internal hardware asset tracking.
- Managed enterprise network infrastructure and assisted in the deployment of security monitoring tools to ensure operational uptime.

Software Intern, Envepo Yazılım A.Ş. | Jun 2022–Aug 2022

- Optimized database schemas and developed backend modules for enterprise software solutions using Python and SQL.
- Prototyped early-stage AI applications for data integrity verification and automated database indexing.

EDUCATION

Software Engineering, Istanbul Aydın University | Sept 2022

- Pursuing a rigorous curriculum focused on software architecture, algorithm design, and cloud-native development with a current GPA of 3.29.
- Actively engaging in advanced coursework and research related to Artificial Intelligence, Machine Learning, and backend system optimization.

Electrical and Electronic Engineering, Istanbul Aydın University | Feb 2026 – Current

- Initiated a secondary major focusing on circuit theory, signal processing, and embedded systems to master the synergy between hardware and software.
- Building a strong technical foundation in autonomous systems and power electronics to support high-level robotics and drone projects.

Artificial Intelligence & Panel Data Modules, YÖK Veri Analizi Okulu | Sept 2022 – Current

- Specializing in advanced Artificial Intelligence modules and Panel Data analysis to master predictive modeling and complex statistical computations.
- Applying data-driven insights and machine learning techniques to interpret large-scale datasets and optimize decision-making processes.

Dijital Beceriler ve Mesleki Gelişim Gençlik Programı, 3G VAKFI | Feb 2022 - Current

- Mastering AI-integrated coding and modern software architecture to develop scalable, technology-driven solutions.
- Utilizing n8n to architect and deploy sophisticated automation workflows, bridging the gap between artificial intelligence and industrial standards.

Junior FullStack Developer(.NET & React Trainee), Acunmedya Akademi | Jan 2025–June 2025

- Completed an intensive bootcamp focused on building scalable web applications using C# and .NET for backend and React for modern frontend architecture.
- Developed end-to-end projects implementing RESTful APIs, database management with SQL, and responsive UI design practices.

SKILLS	
• Problem-solving	• Adaptability
• Problem-solving	• HTML5
• Teamwork	• Python
• React	• CSS3
• AI & ML	• Java
• Attention to detail	• n8n
• Git	• SQL
• Innovative Approach	• Zapier
• GitHub	• JavaScript
• FastAPI	• Django
• LLM Integration	• Computer Vision (YOLO/OpenCV)
• AI Agents (LangChain)	

LANGUAGES

- English B2
- German A2

REFERENCES

- Metehan Altuğ from Founder of E-Power Mekanik
- Abdullah Ersöz from Chief Engineer at TUSAŞ
- Ali Imre Deniz from Lecturer Dr. at ITU

CERTIFICATIONS

https://www.linkedin.com/in/berat-erol-%C3%A7elik-513915258/details/certifications/

PROJECTS

- **YAPAY-AI: Smart Lab Report Analyzer** AI-powered platform interpreting medical findings with personalized health insights using Python Flask and Llama 3.2 (Ollama). Link

- **Audi Water Monitor** – Interactive ESG dashboard developed with Python Dash to visualize and model water usage metrics for sustainability compliance. Link

- **Grails: Carbon Emission Tracker** – Environmental analysis system predicting carbon footprints and generating sustainability reports for Rotterdam University. Link

- **Car Rental Management System** – End-to-end car rental platform featuring booking, inventory, and CRM modules with a robust SQL backend. Link

- **Advanced Matrix Calculator** – Web application for complex matrix operations (+, -, *) and advanced properties analysis (idempotent, nilpotent, symmetry). Link

- **KingSizeAWS Website** – Informative platform on AWS services and certifications built with Python Flask, HTML, CSS, and JavaScript. Link