

EREN YILDIZ

Software Engineer | Backend & Data Science
Istanbul, Türkiye | +90 544 355 90 55 | contact@yildizeren.dev | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Computer Engineering graduate with hands-on experience in Python backend development, data science, and machine learning. Skilled in building REST APIs, data-driven web applications, and ML-powered systems using Django, FastAPI, PostgreSQL, Docker, and scikit-learn.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, C++, SQL

Backend & APIs: Django, Django REST Framework, FastAPI, REST APIs, JWT, WebSockets, Socket.IO

Data Science & Machine Learning: pandas, NumPy, scikit-learn, data preprocessing, exploratory data analysis, feature engineering, cross-validation, hyperparameter tuning, model evaluation, ensemble learning, NLP

Databases: PostgreSQL, SQLite, MariaDB, relational data modeling

DevOps & Tools: Docker, Docker Compose, Git, GitHub, Linux, Bash, Postman

Frontend: HTML, CSS, Tailwind CSS

SELECTED PROJECTS

FikirLab — *AI-Powered Idea Validation Platform*

Django REST Framework, PostgreSQL, pgvector, Docker, AI, RAG

- Co-developed a platform that guides users through a five-stage idea validation workflow, generating risk assumptions, Mom Test questions, MVP scope, validation roadmaps, and structured reports.
- Served as Scrum Master and contributed to backend and AI, RAG development, including REST APIs, authentication, idea and analysis workflows, embedding-based retrieval with pgvector, and Docker-based deployment.

ft_transcendence — *Real-Time Multiplayer Web Platform*

Node.js, Fastify, TypeScript, Socket.IO, Prisma, JWT, Docker

- Contributed to the backend development of a real-time multiplayer platform, implementing JWT-based authentication, user management, game rooms, match records, and tournament workflows
- Built Socket.IO features for live chat, private messaging, game invitations, online presence, room management, match state synchronization, and connection-loss handling.

AI-Powered Human Resources Management System

Django, Python, SQL, NLP, TF-IDF, Cosine Similarity, OpenAI API

- Developed a web-based recruitment system that analyzes CVs, matches candidates with job requirements, and ranks applications using relevance scores.
- Implemented NLP-based keyword extraction and similarity scoring with TF-IDF and cosine similarity, along with an on-demand AI analysis workflow that caches results to reduce repeated API calls.

PROFESSIONAL EXPERIENCE

IT Intern — *Gaziosmanpaşa Municipality, Directorate of Innovation and Technology*

Jul 2025 – Sep 2025 | Istanbul, Türkiye

- Supported internal software and web services, hardware maintenance, end-user troubleshooting, basic network operations, switch configuration, and security camera installations.

Part-Time IT Support Specialist — *NVR Bilişim* — *Feb 2024 – Jul 2025 | Istanbul, Türkiye*

- Diagnosed hardware, software, and system issues, provided end-user support, and contributed to routine system maintenance and daily IT operations.

IT Intern — *Baykar Technologies, Network, IT and Cybersecurity Systems*

Jun 2023 – Sep 2023 | Istanbul, Türkiye

- Assisted with enterprise IT support, Windows troubleshooting, user access issues, and Jira-based ticket tracking and resolution processes.

EDUCATION

B.Sc. in Computer Engineering — *Istanbul Beykent University*

Sep 2021 – Feb 2026 | Istanbul, Türkiye

Software Engineering Core Curriculum — *42 Istanbul*

Oct 2023 – Nov 2025 | Istanbul, Türkiye

Data Science Program — *Google AI and Technology Academy*

Jan 2026 – Aug 2026 | Türkiye

- Relevant coursework: Python-based data analysis, statistics, data visualization, machine learning, and applied data science.

LANGUAGES

Turkish — Native

English — Intermediate (B1); technical reading and written communication