

EMİN AKİF ERZURUMLU

Full-Stack Software Developer · Final-Year Software Engineering Student

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PROFILE

Final-year Software Engineering student at Topkapı University (expected graduation 2027). A full-stack developer who designs REST APIs and data models with Python/Django and builds the interfaces for them with TypeScript/Next.js. Currently backend and AI owner in a 3-person team building an education platform with role-based access control and multi-tenant architecture; previously Frontend Lead in a 5-person Scrum team. Looking for a long-term internship or a new-graduate full-stack developer position.

TECHNICAL SKILLS

Backend:	Python, Django, Django ORM, REST API design, C# / ASP.NET Core, Entity Framework Core, Node.js, Express
Frontend:	TypeScript, JavaScript, Next.js 14, React, Tailwind CSS, EJS, responsive UI development
Databases:	PostgreSQL, MongoDB, SQLite, data modelling, migration management
DevOps:	Git, GitHub, GitHub Actions (CI/CD), Docker, Swagger / OpenAPI, Linux
Testing:	Unit testing, TDD, Agile / Scrum, code review, OOP, SOLID, data structures and algorithms
AI:	Google Gemini API (function calling / tool use), prompt design, PyTorch
Other Langs:	Java, C, C++, Dart / Flutter

EXPERIENCE

Backend & AI Developer — Karnova | AI-Powered Education Platform

3-Person Team · 2026 – present

- Building the backend of a student information system for private exam-prep institutions (LGS/TYT/AYT) with Django 6 and PostgreSQL (Neon serverless); designed the multi-tenant architecture with role-based access control (RBAC) covering institutions, branches and 5 distinct user roles.
- Developed per-student live data tools (weakness analysis, progress tracking, study schedule) using Google Gemini API function calling; hardened them against prompt-injection through closure-based user isolation and adversarial testing.
- Wrote the analytics layer producing learning-outcome-based weakness analysis, net-score trend and radar charts, and adaptive practice recommendations; calibrated score and ranking tables against real 2025 ÖSYM and MEB data.
- Wrote 80+ unit tests following test-driven development (TDD), managed schema evolution across 50+ Django migrations, and ran the Git workflow and code review process for the 3-person team. Architecture docs: github.com/AkifErzurumlu/karnova-docs

Frontend Lead — SmartScheduler | Smart Course Timetable Generator

5-Person Scrum Team · 2025 – 2026

- Built the entire user interface of a genetic-algorithm-based university timetable optimization platform with Next.js 14, TypeScript and Tailwind CSS.
- Implemented JWT authentication, CRUD modals, calendar view, what-if analysis and saved-schedules screens; co-designed the REST API contract with the backend team.
- Integrated with a backend built on ASP.NET Core 9, Entity Framework Core and PostgreSQL 16; CI/CD pipeline set up with Docker and GitHub Actions.
- Ran a 4-sprint Scrum process; handled sprint planning, task tracking and team coordination via Trello.

OTHER PROJECTS

Library Web Application

Individual Project · 2025 – 2026

- Full-stack book management application built with Node.js, Express and the EJS template engine; MongoDB (Mongoose) data layer.
- Password hashing with bcrypt and session management with express-session; user registration/login flow and full CRUD functionality.

Seismic Analysis & Earthquake Prediction

4-Person Team · 2025 – 2026

- Trained Bi-LSTM and Attention-LSTM time-series models in PyTorch on a 31,915-record seismic dataset (seq_len = 20).
- Measured and reported that the univariate setup has low predictive power ($R^2 \approx 0.10$); turned the negative finding into a multivariate design proposal for the team.
- Data cleaning, feature engineering and visualization (Pandas, NumPy, Matplotlib, Seaborn).

Şifre Kasam — Mobile Application

Individual Project · 2026

- Multi-user local password manager built with Flutter and Dart; SQLite (sqflite) data layer, registration/login and account CRUD screens.

EDUCATION

Topkapı University

B.Sc. in Software Engineering

2023 – 2027 (expected)

SOFT SKILLS & LANGUAGES

Soft Skills:	Teamwork · Analytical thinking · Problem solving · Ownership · Eager to learn · Gets things done · Time management
Languages:	Turkish (Native) · English (A2 — able to read technical documentation)