

EREN KAÇAR

Software Developer

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Summary

Computer Engineering graduate with hands-on experience building desktop and full-stack applications using React, Electron, Go, and Python. Developed GuitarSense, a real-time guitar practice and amp platform combining interactive tablature, audio processing, and AI-assisted workflows. Experienced in frontend architecture, backend APIs, inter-process communication, and desktop application packaging.

Experience

Trakya University

Software Developer - Onsite

Edirne, Türkiye
Mar. 2025 – Jun. 2026

- Developed internal workflow and automation tools to improve Student Affairs operations.
- Supported the migration and integration of a new Student Information System across multiple faculties.
- Resolved data and system issues affecting 1,000+ students during the transition.

Education

Trakya University, B.Sc. in Computer Engineering, 2022 – 2026

Projects

GuitarSense – Real-Time Guitar Practice & Amp Platform

Technologies: Electron, React, TypeScript, Python, ZeroMQ, PortAudio, WASAPI, DSP

- Selected for support under TÜBİTAK 2209-A, Türkiye's national undergraduate research funding program.
- Led end-to-end software development of a desktop platform combining real-time guitar amp/effects, interactive tablature, tuner and pitch feedback, practice scoring, recording, and AI-assisted audio import.
- Integrated the Electron/React interface with a Python audio engine through ZeroMQ and implemented real-time audio I/O, device management, runtime validation, and packaged deployment workflows.

Nexora – Full-Stack Social Media Platform

- Built a full-stack social platform with authentication, two-factor verification, password recovery, profiles, posts, follows, likes, reels, and content discovery.
- Developed REST APIs with Go, Gin, and GORM; integrated Firebase-based real-time messaging and responsive React interfaces.
- Added AI-assisted content tagging to support content categorization and discovery.

Grade Watcher – Personal Grade Notification Tool

- Built a Python and Playwright automation tool that checks grade updates through an authenticated student portal session and sends Telegram notifications when changes are detected.
- Implemented session persistence, redirect handling, scheduled polling, and resilient error recovery for unattended monitoring.

Skills

- **Programming Languages:** TypeScript, JavaScript, Go, Python, C++, C#
- **Frontend & Desktop:** React, Electron, HTML, CSS
- **Backend & Data:** REST APIs, Gin, GORM, MySQL, Firebase
- **Systems & Real-Time:** Linux, ZeroMQ, PortAudio, WASAPI, DSP
- **Tools:** Git, GitHub, Shell Scripting