

Eren Semih Yıldız

Computer Engineering Student · Software Developer

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SUMMARY

Second-year computer engineering student at Pamukkale University with a track record of shipping software end to end. Designed, built and released Health Score, an AI-powered product scanner, as a solo developer on both the App Store and Google Play. Builds cross-platform desktop apps with Tauri and Rust, mobile apps with React Native, and tools engineered around hard constraints such as offline, locked-down industrial machines. Seeking a software engineering internship.

EDUCATION

Pamukkale University

2025 – 2029 (expected)

B.Sc. in Computer Engineering · Denizli, Türkiye

- Course projects in C programming (Circle Survivor) and object-oriented programming in Java.
- First-year project: Circle Survivor, a real-time action game in C with raylib.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Java, Rust, C, SQL, Kotlin (basic)
Frontend & Mobile	React, React Native, Expo, Tailwind CSS, HTML/CSS, PWA
Desktop	Tauri 2 (Rust), Electron, Java Swing
Backend & Data	Supabase (PostgreSQL, Auth, Realtime, RLS), SQLite, IndexedDB, FastAPI, REST APIs
AI / ML	Gemini API, PyTorch, Hugging Face Diffusers (local image & video generation)
Tools	Git, GitHub, Vite, pnpm, App Store Connect, Google Play Console, AI-assisted development

PROJECTS

Health Score — AI Product Scanner

2026

Live on App Store & Google Play · iOS & Android · React · Gemini API · App Store · Google Play

- Built and shipped as a solo developer: product design, implementation and release on both mobile stores.
- Scans a label, barcode or photo and returns a 0–100 health score with a per-ingredient breakdown; weekly leaderboard, badges and streaks; six languages.
- Separate sub-scores for additive safety, nutrition and naturalness; personal allergen and diet (vegan, gluten-free, added sugar) warnings.

Resonance & Resonance Mobile — Local-First Music Player

2026

In daily use · Tauri 2 · Rust · TypeScript · React Native · Kotlin · SQLite · Supabase · GitHub

- Desktop player for macOS and Windows on Tauri 2 (Rust core + system webview) instead of Electron, keeping the app lightweight.
- Designed an explainable recommender that learns from Reddit-style playlist votes with time decay, real listening time and time-of-day patterns.
- Android client shares the exact SQLite schema (migrations v1–v8) and syncs through Supabase with row-level security and realtime.

CNC Log System — Industrial Machine Logging

2026

Simulator-tested · Python (standard library only) · Heidenhain TNC 640 · GitHub

- Logs run time, stops, alarms and program durations for CNC machines, built for a working CNC shop and reported in a browser UI.
- Engineered for a locked-down target: SELinux, no pip, no internet and Python 2.7 — solved by shipping a portable Python 3.11 with zero installation.
- Read-only by design (no write methods in the drivers); auto-discovers the machine on the network so operators never enter an IP.

Atlas — Cross-Platform Game Library

2026

In progress · Tauri 2 · Rust · TypeScript · React · SQLite · GitHub

- Unifies games, playtime and achievements from multiple stores; Steam integrated end to end (library, achievements, cover art, launch).
- Pluggable connector architecture with Epic, GOG and Xbox scaffolded; all credentials and cache kept local in SQLite.

Alpha · Java · NeoForge · Mixin · Fabric · [GitHub](#)

- Runs Fabric mods on NeoForge in a single install by bridging metadata and transferring mixins through NeoForge's official extension points.

ADDITIONAL PROJECTS

Show Tracker [Tauri 2](#), [React](#), [Supabase](#), [TMDB](#) — Cross-device watch-progress tracker capturing position from VLC, MPV/IINA and a browser extension; offline-first SQLite mirror with an outbox queue (in progress).

Z-Image Studio [FastAPI](#), [PyTorch](#), [Diffusers](#), [Next.js](#) — Local multi-model AI studio for text-to-image (FLUX.1 Schnell, RealVisXL) and text-to-video (Wan2.1), optimised for Apple Silicon memory.

LinkPad [React](#), [Tailwind](#), [Electron](#), [PWA](#), [IndexedDB](#) — Personal link manager with tags and instant search; ships as web app, offline PWA and desktop app.

Claude Skill Loader [Python](#), [Tkinter](#) — No-terminal installer for Claude skills on macOS and Windows with zero dependencies.

Circle Survivor [C](#), [raylib](#) — Horde-survival game with three enemy types, XP and level-up upgrade cards.

Pizza App [Java](#) [Swing](#) — Desktop ordering app following SOLID principles, with a custom pizza builder drawn live in Java 2D.

LANGUAGES

Turkish — Native · **English** — Professional working proficiency