

Eren Sarıbay

Software Developer

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About

I'm a frontend-focused software developer with 3+ years of experience. I build modern web applications with **Vue, React and Next.js**, and take an active role in API integration, service development and backend work using **Node.js and .NET**. More recently I've concentrated on **mobile development with React Native and Expo**, building apps for **Android-based POS/kiosk devices** and **AI-powered products**. Beyond development, I also took part in the branding and app store release processes of these apps. Within small engineering teams I've taken ownership of frontend architecture, reusable component systems, performance optimization and product development. I also have hands-on experience with **web scraping, real-time data streaming, cache management, LLM integration and Bluetooth/BLE**.

Experience

Software Developer — NSA Teknoloji (Çamlıca Barkod)

February 2023 – Present / Istanbul, Türkiye

Çamlıca Barkod's software unit became a separate company, NSA Teknoloji, in 2024; I continued with the same team.

- Built frontend features, UI/UX improvements and performance optimizations for live enterprise applications using **React, Next.js, Vue.js, JavaScript and jQuery**; over time expanded a frontend-focused role to cover backend and mobile development as well.
- Played an active frontend role on a **.NET Core based** multi-channel e-commerce management platform, contributing to the development and maintenance of an application that lets users manage products, stock and orders from a single platform through API integrations with multiple e-commerce marketplaces. Also delivered UI improvements, new features and bug fixes on a pre-accounting platform serving hundreds of customers.
- Developed services that collect data from multiple e-commerce platforms using **Puppeteer, Cheerio, Node.js/Express, SSE and Redis**; turned scraping systems into API services and integrated them into existing applications, and implemented real-time data streaming and caching mechanisms. Built reusable DataTables-based UI structures and packaged them as modular Node.js packages.
- Took on major responsibility in developing **5+ mobile applications** built with **Cordova and React Native (Expo)**, including interfaces and integrations for BLE/Bluetooth, device communication and kiosk/POS systems. Also contributed to product **branding** and managed the **Google Play and App Store release** processes.
- Built the mobile side of **computer vision and AI-based products**, covering use cases such as product recognition, voice ordering, meeting analysis and voice notes. Worked with React Native/Expo, TypeScript and native Android integrations, as well as speech-to-text, LLM-based intent extraction, POS payments, QR/barcode-based login and real-time data streams.

Intern — Çamlıca Barkod

August 2022 – September 2022 / Istanbul, Türkiye

- Developed a call center automation web application using **.NET MVC and MS SQL Server**.
- Gained experience in data visualization and interactive tables with the DataTables library.
- Created reusable frontend components.

Intern — WhiteCAD

July 2022 – August 2022 / Istanbul, Türkiye

- Gained foundational experience in web-based 3D development with **Three.js**; built an interactive 3D wardrobe project covering scene setup, lighting, animations and OrbitControls.

Education

BSc in Computer Engineering

Bilecik Şeyh Edebali University | 2019–2024 | GPA: 3.32

Technologies

Frontend

Vue.js / React / Next.js / TailwindCSS / JavaScript / TypeScript

Backend & APIs

Node.js / Express.js / .NET / FastAPI / REST APIs / SSE

Databases & Storage

MongoDB / SQLite / MSSQL / Redis

Mobile

React Native / Expo / Cordova / PWA

Selected Projects

Fibi — Voice-First Personal Finance & Inventory App

React Native (Expo) - TypeScript - SQLite - Node.js - LLM

- Built a mobile app that turns a single spoken or typed sentence (“bought shorts for 800 lira”) into both an expense and an inventory record. Input is first handled by an on-device rule-based parser; ambiguous sentences are routed to LLMs through a multi-layer fallback chain, with amount and date always verified in code.
- Includes installment, subscription and monthly cash-flow planning, investment tracking with live prices (stocks, gold, FX, crypto), and expense suggestions from bank SMS. Local-first architecture keeps all data on-device in SQLite, with JSON/CSV backup and restore.

 fibi-app.vercel.app

 github.com/Eswact/fibi

Barcode-Based Product Lookup API

Node.js - Puppeteer - Cheerio - Redis - SSE

- Developed a REST API that fetches barcode-based price comparisons and product information from 8 Turkish e-commerce platforms. Merged two services I had originally built separately into a single restructured service.
- In price comparison mode, all platforms are scraped in parallel and results are streamed in real time via SSE. In product info mode, a “first-found-wins” strategy returns results quickly. Results are cached with Redis.

 barcode-scraper-api.onrender.com

 github.com/Eswact/barcode-scraper-api

Digital Signage — Screen Management System

NestJS - Next.js - Kotlin (Jetpack Compose) - WebSocket - Docker

- Built a real-time digital signage system that sends lightweight JSON documents instead of video files to Android screens, which render them with predefined templates. The project spans the backend (NestJS + WebSocket), an admin panel (Next.js) and a native Android app (Kotlin/Compose).
- Features multi-tenant organizations and teams, content scheduling, offline playback of media cached on-device, and a Docker Compose + Caddy deployment with automatic TLS.

 github.com/Eswact/digital-signage

Other Projects

VoxLog — Real-Time Transcription App

React Native (Expo) - Python - FastAPI - Whisper

 github.com/Eswact/voxlog

BLEXpo — Bluetooth Developer Toolkit

React Native (Expo) - BLE - Classic Bluetooth - Android Intent Integration

 github.com/Eswact/blexpo

Reusable DataTable Systems

JavaScript - jQuery - DataTables - npm

 github.com/Eswact/datatable-responsive-modal |  github.com/Eswact/datatable-visibility-settings

Scale POS Interface

HTML - CSS - JavaScript

 scale-pos.netlify.app |  github.com/Eswact/scale-pos

Floor Plan Editor

HTML - CSS - JavaScript

 github.com/Eswact/floor-plan-editor

Interactive 3D Wardrobe

Three.js - JavaScript

 wardrobe-3d.netlify.app |  github.com/Eswact/wardrobe-3D

Promotional Websites

Vue - Next.js - i18n - SEO

 nsasoft.com.tr |  shood-introduction.vercel.app |  tamsoft-introduction.netlify.app

VOIDRUN — Mobile Game

Godot

 github.com/Eswact/voidrun

Languages

English — Professional Working Proficiency (B2)

Turkish — Native