

Eren Sahbaz

Front-End Developer & Student @
Erasmushogeschool Brussel
Multimedia & Creative technologies



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EXPERIENCE

Düzey (Koç Holding), Istanbul, Turkey— *Software developer*

APRIL 2025

- Contributed to a mobile solution of a nation-wide company.
- Used Flutter for mobile development following the company directives on clean code.
- Used .NET for back-end while being in the flow of the whole architecture.

APRIL 2025

- Contributed to a front-end project using **TypeScript**, focusing on scalable and maintainable code practices.
- Implemented **i18n (internationalization)** to support multi-language functionality and improve user accessibility.
- Gained hands-on experience with **TanStack Query** for efficient state management and API data handling.
- Collaborated in an **Agile development environment**, working closely with senior developers and applying industry best practices.

Demonstr8, Brussels— *Brand Ambassador (Student)*

MARCH 2025- Present

- Represented well-known brands such as Coca-Cola, Danone, and Base during on-site activations across Belgium.
- Engaged directly with consumers to promote brand awareness and enhance customer experience.
- Applied various marketing techniques to create memorable brand interactions.

EDUCATION

HARD SKILLS

React, NextJS, React-Native, Flutter, UI/UX design, Spring Boot, mySQL, NodeJS, Laravel

SOFT SKILLS

Critical thinking, Agile (scrum) workflow, Presentation & Public Speaking, Strong Communication

LANGUAGES

French (Native), Dutch (Native), English (C1), Turkish (Native)

Erasmushogeschool Brussel, Brussels— *Multimedia & Creative Technologies*

September 2023 - September 2026

- Specialized in Fullstack Development across multiple ecosystems:
 - JavaScript (Node.js, React, Vue, TypeScript, NextJs)
 - Mobile development with Swift (iOS) and React Native
 - Backend development with Spring Boot, Express, Laravel
 - PHP & Laravel
 - UX/UI Design
- Built and deployed end-to-end applications with secure authentication, API design, and relational & non-relational databases.
- Applied Agile/Scrum workflows and Git/GitHub version control.
- Integrated UI/UX design, accessibility, and responsive layouts into scalable web and mobile apps.
- Developed multimedia production skills: 3D modeling and animation (Maya), graphic design (Photoshop, Illustrator, InDesign), and video editing/motion graphics (After Effects, Premiere Pro).
- Gained business fundamentals through coursework in entrepreneurship, copyright/IP law, and authored a full business plan.
- Coursework and projects spanned web platforms, mobile apps, interactive multimedia, and business case work.

PROJECTS

Er was eens— *Interactive fairytale website (React)*

Stack: React, TypeScript, Vite, React Router (Data APIs), TanStack Query, react-i18next, Tailwind CSS, MUI, GSAP, Framer-Motion, React Three Fiber & Drei

Animations & 3D: Parallax layers (mountains, clouds, characters), GSAP timeline effects, and lightweight WebGL scenes via R3F/Drei for interactive 3D elements.

Data layer: Used TanStack Query for fetching/caching from project JSON; factored a custom React hook and added useDebounce to limit unnecessary network requests.

Globalization: Shipped NL/EN with react-i18next and a clean i18n folder structure.

UX/UI: Responsive layout with Tailwind, MUI components for filters/menus, React Router (data mode) for structured navigation.

Convoi — Convoy Coordination App (React Native, Supabase)

Stack: TypeScript, React Native, Expo, Expo Router, Supabase (PostgreSQL + Realtime), Zustand, Groq AI (LLaMA 3.3 70B), Google Places API, TomTom Routing API

Core Features: Groups of multiple cars can plan a full road trip together using an AI-powered wizard, track each other live on a shared map, coordinate stops through group voting, and navigate to confirmed stops via in-app turn-by-turn GPS.

Data Layer: Designed a normalized PostgreSQL schema in Supabase with relational tables for users, vehicles, convoys, convoy members, live positions, stops, votes, arrivals and status events. Realtime subscriptions keep all devices in sync without polling.

Authentication & Roles: Built anonymous guest access, email/password login and Google OAuth using Supabase Auth. Role-based access control within convoys (leader, co-leader, member) enforced at both UI and database level via Row Level Security.

AI Integration: Integrated Groq AI with LLaMA 3.3 70B to generate three personalised route options (fast, balanced, scenic) based on user preferences, vehicle profiles and cross-border fuel prices. Each stop geocoded via Google Places API.

Navigation: Built a full in-app GPS navigation screen using TomTom Routing API for road-following routes, with 3D tilted map, rotating heading, turn-by-turn instructions, speed display and auto-advancing steps.