Developer

Kevin van der Toorn

Contact

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Skills & Tools

Frontend Development

- HTML, CSS
- JavaScript
- React, Redux, Styled Components

Backend Development

- Django (Python)
- Django REST Framework (API development)

Data Science & Scientific Computing

- Python (Numpy, Pandas,Matplotlib)
- Julia
- Matlab / Octave

Tools & Other

- Git
- Electron
- Sketch & Figma
- Fusion 360

Profile

Developer from the Netherlands with many years of experience, starting out with **MS FrontPage** and continuously growing in knowledge and technology. Specialized in **React** and **Django**. Passionate about translating complex challenges into smart code and creating innovative applications that add value.

Experience

Delft Hyperloop

As part of the Delft Hyperloop team, helped build an innovative prototype for a new transportation system. We competed in SpaceX's **Hyperloop Pod Competition** and finished **second worldwide**.

Mission Control

Developed a mission control system for the Hyperloop pod, providing real-time monitoring of subsystems and sensors. Implemented with **React**, **Electron**, and **MQTT**, with a layout optimized using aerospace interface principles in collaboration with domain experts.

Impact: Ensured **reliable monitoring and control** of the Hyperloop pod, enabling the team to **operate with confidence** in the high-stakes competition.

Test Setup

Responsible for the measurement and control electronics and software in a remote-controlled test setup evaluating Hyperloop wheel designs. Built an **Electron** GUI streaming real-time sensor data from **Python** via **RabbitMQ**, with motor control and multi-camera monitoring (via **OBS**).

Impact: Enabled the team to make **confident design decisions** through reliable, repeatable testing of vehicle parts with real-time data.

Hyperloop Blog

Built an industry-focused blog — hyperloopconnected.org — using **React**, **Leaflet**, and a **Django** backend, including an interactive map to track hyperloop developments.

Impact: Makes hyperloop developments accessible to a broad audience.

Education

BSc Electrical Engineering

Delft University of Technology

Nearly completed, one course left

Minor in Computer Science

Delft University of Technology

Completed

Hobbies & Interests

3D Printing

I enjoy designing and 3D printing practical solutions to everyday problems.

Efteling

Drawn to the park's attention to detail, its seamless blend of technology with storytelling, the natural setting, and enchanting music.

Nintendo

Inspired by Nintendo's creative use of existing technology, its focus on fun, innovative gameplay, and its unique approach to game design.

Languages

English	Professional
Dutch	Native
German	Limited
Japanese	Elementary

Main Website

Built the official Delft Hyperloop website (**frontend** and **backend**), essential for communicating the team's mission, sharing updates, and engaging the public. Implemented with **HTML**, **CSS**, **JavaScript**, and **Django**.

Impact: Boosted the team's **visibility** and helped secure **sponsor support**.

Saysimple

Interactive Tools

Created a **WhatsApp pricing calculator** and a **chat widget generator-** . These tools – with support for **multiple languages (i18n)** – give customers a clear view of **expected costs** and an easy way to add **WhatsApp chat** to their sites.

Impact: Helps customers make **informed choices** and **connect effortlessly**.

Delft University of Technology

Transport Network

Built a **React** and **Leaflet** tool that lets students design hyperloop networks between European cities and assess profitability using a mathematical model.

Impact: Encourages **active participation** by letting students experiment with realistic hyperloop networks in an academic setting.

Albert Heijn

Product Search Tool

Built a web app on my own initiative that helps colleagues find products faster and more accurately. With a **Python/Django** backend and **React/Redux** frontend, it uses a custom search algorithm and scannable code generation to speed up daily workflows and integrate with the internal system.

Impact: Received **positive feedback** from colleagues for making product searches faster and easier.