

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 continually advancing as technology evolved. Specialized in **React** and **Django**. Driven to create tools that feel simple on the surface, but solve real challenges underneath.

## 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 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

Completed

### 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.