



Rijswijk - The Netherlands
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Sadra Shameli

Full-stack developer with 2 years of experience. Proficient in TypeScript, React and Next.js with tRPC, React Query, Prisma, Drizzle and NextAuth for building type-safe backends. Skilled in Tailwind CSS and Framer Motion for designing modern UI/UX. I am also experienced in designing IoT devices.

Details	Driver license <div></div> Yes	Date of birth <div></div> Dec 2003
Links	https://sadra.nl https://youtube.com/@sadrashameli	https://github.com/sadrashameli https://linkedin.com/in/sadrashameli
Skills	TypeScript • React • Next.js tRPC • React Query • Drizzle, Prisma 3D Modeling & Printing	Tailwind CSS • Framer Motion PostgreSQL • SQL Server ASP.NET • Entity Framework
Education	Grotius College VWO - Natuur en Techniek https://www.grotiuscollege.nl	Sep 2020 - Aug 2023 Delft, The Netherlands
Experience	Blue Star Planning Full-stack developer · Fulltime (Hybrid) https://bluestarplanning.com	Dec 2021 - Jan 2023 · 1 yr 1 mo Rotterdam, The Netherlands
<p>As a full-stack developer at Blue Star Planning B.V., I was responsible for creating a full-stack application integrating IoT devices for telemetry collection, a robust backend for data storage, analysis, and processing, and an intuitive frontend for data visualization. Key responsibilities:</p> <ul style="list-style-type: none">Enhanced application performance with efficient lazy loading and advanced routing techniques to eliminate unused codeDesigned and implemented reusable react components, contributing to code modularity and maintainabilityDirected research to elevate performance, centering on user experience and streamlined system efficiencyDesigned various IoT devices from ground up, including 3D modeling and printing. Intended to gather various telemetries, such as temperature, humidity, air pressure, gas resistance, altitude, loudness levels, noise recordings and RPM values. The devices are placed at various locations in the Netherlands and are continuously registering dataCooperated a CI/CD pipeline using Azure DevOps for streamlined and automated deployments, resulting in faster and more reliable code base <p>Skills: React • TypeScript • Next.js • ASP.NET • SQL Server • Unit Testing</p>		
	Gamma Salesman · Parttime https://gamma.nl	May 2021 - Dec 2022 · 1 yr 8 mo Den Haag, The Netherlands

Hoogvliet

Salesman · Parttime

<https://hoogvliet.com>

Sep 2021 - Mar 2022 · 7 mo

Rijswijk, The Netherlands

Domino's

Delivery Driver · Parttime

<https://dominos.nl>

Jul 2020 - Dec 2020 · 6 mo

Rijswijk, The Netherlands

Projects

sadra.nl

Personal portfolio

Mar 2024 - Present

<https://github.com/SadraShameli/sadra.nl>

This project is part of a full-stack application with multiple objectives, serving as both a personal portfolio and a backend for Sensor Hub devices. The application makes the devices able to fetch configuration, register telemetries and save noise recordings. Additionally, it includes a frontend for visualizing the data collected by the Sensor Hub devices. Key responsibilities:

- Type-safe front-end and back-end using Typescript, React, Next.js and tRPC
- Utilizing React Query for efficient state management, handling loading and error states, and seamlessly managing stale data
- Integrating Tailwind CSS with Framer Motion for a rapid, responsive and fluid UI, ensuring a modern and consistent design language across the application and enhancing the user experience
- Using drizzle for near-instant SQL queries and mutations, enhancing the application's responsiveness
- Implemented REST API functionalities using Next.js App Router to manage the database and user interactions effectively
- Enhanced application performance with efficient lazy loading and advanced routing techniques to eliminate unused code
- Designed and implemented reusable react components, contributing to code modularity and maintainability
- Incorporating a CI/CD pipeline using GitHub Actions for streamlined and automated deployments, resulting in faster and more reliable code base
- Improving the quality of the received .wav noise recording samples by applying DC filtering, A/C weighting and normalizing the samples for better hearing
- Implemented SEO best practices to improve the search engine ranking of the portfolio, enhancing visibility and accessibility, and achieving excellent Core Web Vitals metrics

Skills: Typescript · React · Next.js · tRPC · React Query · Tailwind CSS

Sensor Hub

Gathering telemetries for sadra.nl

Feb 2024 - Present

<https://github.com/SadraShameli/SensorHub>

This project is part of a full-stack application and is intended to gather various data such as temperature, humidity, air pressure, gas resistance, altitude, loudness levels, noise recordings and RPM values. The devices are placed at various locations in the Netherlands and are continuously sending these data to my website at my website sadra.nl.

- Focus on optimizations: Debug and release configurations apply different macros and compiler flags to make debugging easy and runtime faster. Enabling all compiler warnings to write safer code. Using std::move and pass by reference to avoid additional copies
- Supporting multithreading for all core functionality. Tasks are created, suspended and deleted when needed: This results to a boot time of only 100ms when running in release mode
- Advanced failsafe system and logging mechanisms to notify users of potential errors and bugs
- Saving a list of last 25 failures that occurred during the runtime
- Using XOR bitwise operations with the mac address to encrypt user data before saving to the storage
- Custom Pin, WiFi, HTTP and Gui classes to provide simple APIs for ease of use
- Handling runtime and backend errors and notifying users with a failsafe when errors occur

Skills: 3D Printing ... C++ ... ESP32 ... IoT devices

Project A.I.

Self Driving Robot

Sep 2022 - Dec 2022

<https://github.com/SadraShameli/ProjectAI>

The purpose of this project is to create an autonomous self-driving robot, which is able to follow a course and avoid obstacles, all on its own. Its inspiration originates from being a big fan of Elon Musk, Tesla and its technology. This project is mainly created for PWS (profielwerkstuk) using our own specific hardware, but it can be replicated by the user to work on their hardware as well.

- Fully autonomous driving without any input from the user
- Ability to manually control using a PS5 or PS4 controller
- Utilizing the TensorFlow machine learning library
- Using multithreading for every core functionality

Skills: 3D Printing ... Machine Learning ... Python ... C++

Languages

English

Professional Proficiency

Dutch

Professional Proficiency

Persian

Native speaker

Hobbies

Robotics

Guitar

Photography

Cars