

Stijn Timmerman

SOFTWARE ENGINEER · FULL-STACK

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→ Full portfolio with projects, demos and links: stimmerman.nl/en

Profile

Full-stack software engineer specialised in connected products (IoT), web apps, AI agents and DevOps. Deepest experience with the **PEAN stack: PostgreSQL, Express, Angular and Node.js**, my daily tooling at Hydraloop, where I grew from working student to medior engineer with full-stack ownership of the Device Manager IoT platform. Runs a personal VPS with everything self-hosted: Docker, databases, reverse proxies and CI/CD.

Work experience

Medior Software Engineer

Jan 2026 – present

Hydraloop Systems · Leeuwarden · Hybrid

- Full-stack owner of the Hydraloop Device Manager (HDM) IoT platform
- Architecture of the Hydraloop app and website
- Integration of AI systems in product and marketing
- PEAN stack: PostgreSQL, Express, Angular and Node.js (+ MQTT, Docker)

Junior Software Engineer

Jul 2023 – Jan 2026

Hydraloop Systems · Leeuwarden · Hybrid

- Continued development of the Hydraloop Device Manager (HDM) IoT platform and the Hydraloop smartphone app
- 3D product configurators in TypeScript and Three.js
- Built hydraloop.com: headless WordPress with a custom PHP frontend
- Agentic AI chatbot and AI translation system in six languages
- Lead scoring with CRM integration

Working Student Software Engineering

Oct 2022 – Jun 2023

Hydraloop Systems · Leeuwarden

- Supported the development team alongside my studies

Graduation internship

Jan 2023 – Jul 2023

Achmea · Leeuwarden

- Learning platform about big data: benefits, drawbacks and ethical considerations
- Built with Angular and Wicked Problem Solving

Innovation Development internship

Jan 2022 – Jul 2022

GGZ Friesland

- VR experience that lets relatives experience what a psychotic episode feels like

Tutor in Maths, Chemistry & English

Jan 2019 – Jul 2021

TopTutors · Leeuwarden

- One-on-one tutoring for secondary school students

Skills

FRONTEND

Angular, React, Next.js, Flutter, TypeScript, Three.js

BACKEND

Node.js, Express, PostgreSQL, Prisma, REST, WebSocket, MQTT

DEVOPS

Docker, Caddy, Linux, CI/CD (Jenkins), Cloudflare, self-hosting

AI

LLM agents, tool calling, Ollama, RAG, OpenAI/Anthropic APIs

Education

BSc Communication & Multimedia

Design

NHL Stenden · 2019 – 2023 · degree obtained

ICT (first-year diploma)

NHL Stenden · 2017 – 2019 · diploma obtained

Languages

Dutch (native) · English (fluent)