Max Delissen

Backend-focused software developer · HBO-ICT student at Fontys · Open to a graduation internship from February 2027

Beegden, the Netherlands · contact@delissen.dev

delissen.dev · github.com/MaxDelissen · linkedin.com/in/max-delissen

PROFILE

Fourth-year HBO-ICT student at Fontys and part-time developer in the R&D team at Stienen. I build backends and the infrastructure under them: .NET APIs, queues, databases, Kubernetes and the servers they run on. What I enjoy most is building things people can use right away, and keeping them running. I'm looking for a backend graduation internship from February 2027.

EXPERIENCE

Software developer, R&D · Stienen, Nederweert — Sep 2025 – now

Internship in semester 5 (Sep 2025 – Jan 2026), part-time in the R&D team since April 2026

- **AI assistant for product documentation** (May 2026 – now). Took it from a Python prototype with a local model to a .NET 10 service in the team's platform, mostly on my own. Colleagues use it, and it is shown in customer demos.
- Compared five ways to convert complex PDF manuals into Markdown and chose on accuracy and speed. Built retrieval on PostgreSQL with pgvector and Gemini, with tool calling, streamed answers and feedback on each answer.
- **AI translation tool** (Jul 2026 – now, solo). Translates the screen texts of barn climate controllers into new languages within the firmware's length limits. Rebuilt it twice; the third version, still in development, is a small .NET CLI with checks and tests.
- **FarmConnect mobile app** (internship). Researched what users needed with a survey (77 responses), then built a Flutter app with login, remote control and live dashboard widgets. Built the .NET service that turns the controllers' XML widget definitions into live widgets over SignalR, and introduced unit tests to the team.
- Company mentor on the internship: *"The end result is much more than a proof of concept."* Stienen offered me a part-time job afterwards.

Kitchen staff · Gasterie de Knip, Wessem — May 2021 – May 2026

- Started at 14 as a dishwasher, then moved to the cold kitchen. Later, new colleagues came to me with their questions.

PROJECTS

Dogfood Studios game build platform · Fontys semester 6, team of 4 — Feb – Jun 2026

.NET 8, PostgreSQL, Kubernetes, KEDA, GitLab CI, MinIO

- A platform that builds students' games on every push and puts them on arcade cabinets. We were the third student team on it and rebuilt it on .NET and Kubernetes.
- Rebuilt the Kubernetes setup and designed the autoscaling: KEDA starts one pod per build from a queue in PostgreSQL, which replaced RabbitMQ for builds that run for hours.
- Built the GitLab/GitHub integration, the data model and the CI, and was the contact for the client. Merged 45 of the 76 merge requests.
- Handed over with documentation; the next team had little left to do.

RZL Haelen website · volunteer for my swimming club, solo — Oct 2025 – now

Astro, Cloudflare Pages, Pages CMS, GitHub Actions

- Moved the club's website and e-mail to new hosting before the old contract ran out (Oct 2026).
- Building a static site that volunteers can update themselves through a CMS (work in progress).
- Before that, my semester 6 platform for the club: load-tested to 500 virtual users and took p95 from 2.2 s to 1.36 s with output caching. I replaced it because it was too complex for a club to run.

Homelab · solo — 2024 – now

Docker Compose, Traefik, Cloudflare Tunnel + Access, GitHub Actions

- The services my family uses (photo frame, shared calendar, file sync) on a Raspberry Pi and a repurposed laptop: 12 routes, zero open ports, deploy on push and encrypted backups.

Carver engine sound and CAN bus · minor Signals & Embedded Systems, team — Sep 2026 – now

Teensy 4, ESP32, CAN bus, SavvyCAN, Flutter

- Decoded the vehicle's undocumented CAN bus into a DBC file. Measured Bluetooth audio latency (120–330 ms against a 30 ms requirement) and advised against playing the sound through a phone.

Equine Integration · Fontys semester 4, client project, team of 4 Apr – Jun 2025
Flutter, Figma, Jira, GitLab

- Scrum master. My teammates were new to Git, so I set up the Git workflow and did 25 of the 32 merges.

LMStudio for .NET · open source, solo May – Jun 2024
C#, .NET 8, NuGet

- A small library for chatting with a local language model from C#. My first NuGet package, with 1,000+ downloads.

More projects, back to my first program in 2021: delissen.dev

EDUCATION

HBO-ICT (Bachelor), Software Development & App Development · Fontys University of Applied Sciences, Eindhoven Sep 2023 – expected Jun 2027

- Now in semester 7, with a minor in Signals & Embedded Systems. Graduation internship from February 2027.
- Our first-semester project, FitSchool, won first prize for the best project of the semester. I built the backend and joined the team's work into one app.

HAVO, E&M · St. Ursula, Horn 2018 – 2023

- Profile project graded 9: Insta-Gran, a clickable Android prototype, made in Unity, of an app against loneliness among the elderly.

SKILLS

Languages: C#, Dart, Python, TypeScript, JavaScript, SQL, C++ (embedded)

Backend: .NET 8 and 10, ASP.NET Core, Entity Framework Core, SignalR, REST APIs, clean architecture, xUnit, architecture tests

Data: PostgreSQL (with pgvector), MySQL, MariaDB, MinIO

Infrastructure: Docker, Kubernetes, KEDA, GitLab CI, GitHub Actions, Azure Pipelines, Azure, Cloudflare (Tunnel, Pages), Traefik, Linux, k6 load testing

Front-end and mobile: Flutter, React, Astro, Figma

AI in products: retrieval (RAG) with embeddings, tool calling, Gemini, OpenAI API, local models

Way of working: Scrum (scrum master twice), Git workflows and code review, Jira, user research

HOW I WORK

Measure, then choose. I compared five PDF conversion methods before picking one, and load-tested my own API before deciding where to optimise.

Take the lead when a team needs it. Scrum master in two student teams, one of them with a team in Brazil. In the kitchen, new colleagues came to me with their questions.

Build it, and keep it running. I ran the Kubernetes side of Dogfood, I run my own homelab, and I look after my swimming club's website.

Keep it simple enough to hand over. I replaced my own club platform with a static site volunteers can run without me.

Finish, and say what isn't finished. Dogfood was handed over with documentation. Where a project stopped, I say so.

Stick with things. 13 years of competitive swimming, 12 years of trombone in a wind band, 5 years in a restaurant kitchen from age 14.

Use AI as a tool. I don't believe in vibe-coding, but I also don't think you need to master every framework and language anymore. What counts is understanding the system well enough to direct the AI and check its work.

VOLUNTEERING, LANGUAGES AND INTERESTS

Children's holiday week (KVW Beegden), 7 years: 5 looking after a group of kids, 2 as an assistant.

Languages: Dutch (native), English (good, spoken and written).

Driving licence: B.

Interests: competitive swimming, trombone in a wind band, 3D printing, and the Minecraft server I run for friends.