



# Marten den Heijer

Full-stack Software Engineer

## Hello, I'm Marten

I am a backend-focused full-stack software engineer with a strong focus on delivering **high-quality** and **sustainable software solutions**. Collaboration and effective communication are among my greatest strengths. I am confident in my skills and I'm always **searching to further develop my expertise**.

## CONTACTS



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[www.martendenheijer.nl](http://www.martendenheijer.nl)

## Education

**Bachelor-ICT**, HAN University of Applied Sciences, Arnhem.

## Expertise

- Leadership and Management:**  
Demonstrated effective leadership skills, overseeing the efficient operation of a software development team and ensuring project goals were met.
- Agile Methodologies:**  
Proficient in utilizing agile methodologies, including Scrum, to streamline development processes and enhance overall project efficiency.
- Technical Expertise:**  
Adept at developing and implementing innovative technical solutions, utilizing a wide range of technologies.

Python, C#, Java, Node.JS, MySQL, MongoDB, Docker, Kubernetes, Git, Natural Language Processing, Large Language Models (LLM's)

## EXPERIENCE

2022 - 2024

### Lead Software Engineer | Qfact

2 years

As a lead developer at Qfact, I was responsible for overseeing a team of software developers. My tasks include guiding the development process and ensuring code quality. I was also in charge of the software architecture for Qfact's SaaS platforms. Additionally, I designed and implemented the most complex components of the software solutions for our applications.

- Managing internal and external stakeholders.*
- Training Junior Developers.*
- Taking leadership for ongoing projects within an agile development process.*
- Developing technical solutions, discussing and presenting them to the team.*
- Contributing to strategic-level discussions for Qfact's software product roadmap.*
- Making Architectural Decisions.*

2018-2022

### Software Engineer | Qfact

4 years

As a software engineer at Qfact, I worked on various projects within software applications. I was responsible for developing and maintaining software solutions and collaborating with a team of developers to complete the projects. I successfully delivered numerous projects that integrated both frontend and backend functionalities.

- Design and implement software solutions.*
- Work together with a team of software engineers to implement software solutions.*
- Design high quality and sustainable software solutions to maintain SaaS-applications.*
- Adhere to SOLID principles.*
- Adhere to Clean Code principles.*
- Working in an agile environment (SCRUM).*

## Personal

Utrecht,  
Veenendaal

Drivers license  
B

Dutch  
English

## Projects

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Visit my website on <https://martendenheijer.nl> for a complete overview of my projects.

### SaaS Software Platform Development and Leadership

- Worked for five years on a SaaS platform within a microservices architecture used by thousands of users daily for complex data analysis tasks.
- Actively participated in all development stages, including leading design sessions, implementation and automated testing.
- Wrote a substantial amount of code, gaining deep insights into both Node.js and Python.
- Responsible for creating automated tests, maintaining CI/CD pipelines, and giving regular demos.
- Contributed to roadmap discussions and led sprint planning meetings and retrospectives as lead software engineer
- Tech Stack: NodeJS, Python, Microservices, Eventsourcing, VueJS

### QIntelligence

- Lead the QIntelligence initiative at Qfact, taking charge of establishing a robust document indexing infrastructure.
- Created a Proof-of-Concept for automated content analysis, leveraging NLP technologies (SpaCy, NLTK, Gensim) and Llama-2.
- Resulted in a system that significantly reduced administrative workload and provided highly accurate project recommendations, showcasing expertise in NLP and innovative problem-solving.
- Tech Stack: Python, Flask, SpaCy, ChatGPT, Llama-2

### Analysis Functionality Enhancement

- Headed the Analysis Functionality project at Qfact, addressing performance issues with existing analysis methods amidst growing data volumes.
- Designed overall architecture and granular software modules within the microservices architecture.
- Introduced a user-friendly interface for configuring analysis reports, dynamically creating complex MySQL queries, ensuring rapid report loading for intricate data across multiple microservices.
- Tech Stack: NodeJS, VueJS, MySQL, MongoDB

### Eventstore Development

- Collaborated closely with the software architect in developing a new Eventstore for Qfact's software platform.
- The Eventstore, based on the Event Sourcing pattern, served as a database for storing business logic, utilizing JavaScript, Cassandra, and MongoDB.
- Used SCRUM methodology for software development, covering design, code implementation, migration, and integration into the existing platform.
- Tech Stack: NodeJS, Cassandra, RabbitMQ, MongoDB

### Car Sharing Mobile Application

- Developed a Mobile Car Sharing Application, designed for efficient management of shared vehicles.
- Implemented features encompassing tracking of car usage, push notifications, email alerts, and precise calculations for mileage and fueling costs.
- Crafted a user-friendly design utilizing VueJS for the front-end and .NET for the back-end, with MySQL handling data persistence.
- Tech Stack: .NET, MySQL, VueJS, Mobile App Development

## Technologies

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- Python, Flask, Django, FastAPI, Natural Language Toolkit (NLTK), Gensim, spaCy, NumPy, Pandas, PyTorch
- C#, .NET, Unity Engine
- Java, Spring Boot
- Javascript, NodeJS, VueJS, React, Angular, Expo
- PHP, Laravel, Phalcon
- MySQL, Cassandra, MongoDB, Elasticsearch, Redis, Firebase, PostgreSQL
- Docker, Kubernetes, Cloud (Google Cloud Hosting, DigitalOcean, Azure, AWS)
- Git, Github, Gitlab, Jenkins
- NLP Technologies, Large Language Models (ChatGPT API, Llama-2)
- Test-Driven Development (TDD)

## Personality

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- **Detail-Oriented Problem Solver**
- **Quality-Conscious Software Advocate**
- **Collaborative Team Player**
- **Innovation-Driven Facilitator**
- **Continuous Learner and Innovator**
- **Stakeholder-Centric Analyst**
- **Great empathy**