

LENN DRIJKONINGEN

SOFTWARE ENGINEER

ABOUT

Lenn is a motivated all-round developer with a passion for trying and learning new technologies. He likes getting his hands dirty with front-end development but is also not afraid to lend a hand in a back-end project. Due to his education in industrial engineering, Lenn has a wide background in programming. As an engineer he also has a great capacity for analytical thinking and problem solving. These skills are invaluable in larger software projects.

WORK EXPERIENCE

KBC

March 2025 – Present

Senior Front-End Developer

Working on the internal MyKate application for KBC employees. The application currently being used is a result of a POC and therefor has accumulated a lot technical debt. The goal is to rewrite the application from scratch while following the internal programming guidelines, design system and Figma designs as closely as possible. Also setting up a PWA version of the application to replace the end-of-life ionic application.

Highlights

- ◀ Rewriting entire application from scratch using Angular
- ◀ Collaborating with designers to ensure the application follows the Figma designs
- ◀ Improving existing features based on user feedback
- ◀ Setup of first PWA for internal use at KBC

SMALS

March 2024 – March 2025

Senior Front-end Developer

Managed applications eMohm and eWZC used in elderly care by the Flemish government. The applications were outdated in terms of Angular version and visual appearance. Both applications, eMohm and eWZC, have been rewritten to the latest Angular version and conform to the most recent Flanders styleguide. All tests have been migrated.

Highlights

- ◀ Upgrading the Angular versions of these applications
- ◀ Implementing front-end tooling such as Prettier and linting
- ◀ Adapting the style to the most recent Flanders styleguide
- ◀ Adding new features
- ◀ Migrating from Selenium tests to Cypress
- ◀ Expanding Cypress tests

KBC

June 2023 – December 2024

Senior Front-End Developer

Worked on MyKate, an in-house application for KBC employees. The latest addition was the HR section, allowing for job vacancy creation, candidate screening, and job application submission. Achieved a successful production release of MyKate featuring a more comprehensive HR section beyond the minimum viable product (MVP).

Highlights

CONTACT



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EDUCATION

2014

Universiteit Hasselt

Master's

Industrial Sciences

2013

Katholieke Hogeschool Limburg

Bachelor's

Industrial Sciences

SKILLS

Programming Languages & Frameworks

Angular	TypeScript	JavaScript	CSS 3
SCSS	SASS	HTML 5	JSON
RxJS	NodeJS	Storybook	Stenciljs
Bootstrap	Springboot	REST	Java
PHP	C#	C++	Python
XAML	Objective-C		

Frontend Senior

Angular	JavaScript/TypeScript
SCSS / CSS / BEM / Styled Components	HTML 5
JSON	RxJS / Redux / ngrx
NodeJS / NPM / Yarn	Storybook
Bootstrap / Material Design	Stenciljs / lit
PHP	

Backend Junior

Springboot	Java	Maven	REST	C#
C++	Python	Objective-C	XAML	
MongoDB	PostgreSQL			

Mobile Development Intermediate

Angular PWA	Android (Java)
iOS (Swift/Objective-C)	Windows Mobile (C#)

Methodologies & Concepts

Agile	Scrum	Unit testing
Design patterns		
Object Oriented Programming (OO)	Microservices	

- ◀ Developing new pages
- ◀ Creating both dumb and smart components
- ◀ Integrating new pages and components with the ngrx store
- ◀ Training and supporting new team members

MijnGezondheid

April 2023 – June 2023

Front-end Developer

Mijn Gezondheid is the government's platform for health-related matters for Belgian citizens. Developed a design system using Storybook for documentation and StencilJS for components to ensure consistency and third-party integration.

Highlights

- ◀ Setup Storybook for documentation
- ◀ Building basic components
- ◀ Defining styles

KBC

February 2020 – March 2022

Front-end developer

As part of the core team, responsible for managing, maintaining, and updating in-house Angular libraries aligned with the design system. Improved the quality and consistency of user interfaces and delivered better results for clients.

Highlights

- ◀ Writing testing wrappers for existing components
- ◀ Updating and maintaining existing components
- ◀ Writing new components
- ◀ Library ownership
- ◀ Writing schematics and build tools
- ◀ Angular migrations on library level
- ◀ Writing documentation for consumers
- ◀ Writing an efficiency dashboard fed by a bitbucket scraper

The Sniffers

October 2019 – February 2020

Front-end developer

The Sniffers is a global service provider in emission reductions and pipeline integrity. Worked on the SFEMP application, an Angular 8 application, that monitors sites and installations for emissions.

Highlights

- ◀ Prepare the application for release of version 4.0
- ◀ Add new core features
- ◀ Improve existing components for useability and accesibility
- ◀ Increase the speed of the application

Engie Services Zuid

Tools & Technologies

IntelliJ IDEA	Visual Studio Code	Xcode
Cypress	Confluence	Jira
Git		
Jenkins	Matlab	Adobe Illustrator
Adobe Photoshop	Google Analytics	MS Visio
MS Office	bash	Mac OS X
		Copilot

PUBLICATIONS

Validation of a Smartphone-based Photoplethysmographic Beat Detection Algorithm for Normal and Ectopic Complexes

■ Cinc 2014

07 September 2014

🌐 <https://dblp.org/rec/conf/cinc/DrijkoningenLAL14>

This paper describes the development and validation of a smartphone application designed to distinguish between normal heart rhythms and premature ectopic beats. Using Photoplethysmography (PPG)—measuring blood flow changes via the phone's camera—researchers tested an algorithm on 28 volunteers in a controlled hospital setting. By comparing the smartphone data to a reference ECG, the study proved that the app could accurately identify irregularities and differentiate premature beats based on timing intervals. Ultimately, the research confirms that smartphones are capable of detecting specific cardiac arrhythmias beyond simple heart rate monitoring.

January 2019 – April 2019

Front-end developer

Contributed to a solution for creating and managing IOT infrastructures in buildings and sites, utilizing an Nrwl/NX mono repo with Angular 7+ front-end and a Nest API gateway. Responsible for building the client application and the Nest API.

Highlights

- ◀ Building the client application
- ◀ Building the Nest API for connecting to the back-end
- ◀ Coaching and guidance of other junior front-end developers

Kind En Gezin

March 2018 – November 2018

Front-end developer

Developed 'Kariboe', a new Angular 6 application with a Spring Boot back-end, used to pay doctors providing services for 'Kind&Gezin'. The first version of the application was ready to be deployed to production.

Highlights

- ◀ Development of a front-end single page application in Angular
- ◀ Application built up out of modules for dynamism, easier development, and expansion

Nike

November 2016 – February 2018

Front-end developer

Responsible for rewriting several internal JSP applications into the Angular framework to improve efficiency and maintenance. Several functions have been converted and new applications created.

Highlights

- ◀ Create Angular application to replace old JSP applications
- ◀ Create a spring-boot gateway to communicate between legacy systems and the angular application
- ◀ Create new applications in angular such as absence planner and monitoring tools
- ◀ Adapting and enhancing legacy applications written in JAVA EE

Lidl

October 2016 – October 2016

Front-End Developer

Contributed to the creation of an internal digital magazine accessible only for employees, utilizing Angular2.

Highlights

- ◀ Front-end development in Angular2
- ◀ Creation of new components
- ◀ Adaptation and improvement of existing components

Qompium

August 2014 – October 2016

CTO & Co-Founder

Co-founded a start-up to commercialize a heart rhythm disorder detection smartphone application developed during a master's thesis. The goal was to transform the standalone application into a complete platform for cardiologists and patients.

Highlights

- ◀ iPhone development
- ◀ Android development
- ◀ Windows Phone Development
- ◀ Signal processing
- ◀ Front-end Maintenance
- ◀ Company Presentations
- ◀ Supervision over an Android freelancer and Junior Android Developer (last 3 months)
- ◀ Aiding in the back-end development

Ziekenhuis Oost-Limburg

February 2014 – July 2014

All-Round Developer

Worked in the Mobile Health department, providing technical solutions for challenges and projects.

Highlights

- ◀ Further refinement of master thesis results (smartphone application and signal processing)
- ◀ Supervising and helping new master and bachelor students with their theses
- ◀ Aiding Phd students and clinicians by providing technical solutions for their studies

Khlim Onderzoekscentrum

June 2013 – August 2013

PHP Developer

Refined the eHealth integration and optimized general functions of the LISTEL vzw platform following bachelor thesis work. Resulted in a more efficient and user-friendly platform.

Highlights

- ◀ Refinement of the eHealth integration
- ◀ Optimization of already existing general functions (forms, messaging...)