

# Karl Devooght

Senior Fullstack Developer  
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## Work Experience

### CEO - FREELANCE, KLARENCE CONSULTING SÀRL-S, LUXEMBOURG - 09/2018 - To Present

- I used to propose my services as freelance as a senior technical leader / full-stack developer specialized in frontend architectures, particularly in Angular.
- Frontend trainer since 2015. Taught basic and advanced training courses in Angular / React / Typescript / RxJs. Trained over 200 persons in Luxemburg as part of their company digital transformation (Foyer, Post, Société Générale, Luxair are some customer examples).

### SENIOR FULLSTACK DEVELOPER, SALONKEE, LUXEMBOURG - 02/2024 - 08/2024

- Freelance mission
- Fullstack development of the migration of the Salonkee application in Angular and NodeJs, a responsive web application which allows online reservation and logistics of beauty services.
- Daily development on a technical stack composed of Angular / PrimeNG
- Helped the team to adopt agile methodologies (Scrum), support junior developers and provided advice regarding the frontend architecture

Technologies: Angular, PrimeNg

### SENIOR FULLSTACK DEVELOPER, FOYER, LEUDELANGE - 10/2021 - 02/2024

- Freelance mission
- Led the Frontend development of the web and mobile MyFoyer applications, the digital journey for the Foyer customers (100K active users).
- Daily development on a technical stack composed of Angular / Ionic / Scala architecture.

Technologies: Angular, Ionic, Scala, MongoDB

### TECHNICAL FRONTEND LEADER, PASSBOLT, ESCH-SUR-ALZETTE - 09/2020 - 09/2021

- Freelance mission

- Led the Frontend development team of the Passbolt, an open-source password manager application used by more than 100K active users.
- Led the complete Frontend migration from CanJS to React
- Helped the team to adopt agile methodologies (Scrum)

Technologies: React, NodeJs

#### TECHNICAL TEAM LEADER, VICTOR BUCK SERVICES, CAPELLEN - 09/2019 - 08/2020

- Freelance mission
- Led the development team of the Docunify application, an admintech web / mobile application.
- Daily development on a technical stack composed of Angular / NodeJs / Express / MongoDB through a microservice architecture
- Led and defined the future architecture boundaries ( upgrade of frameworks / libraries version, microservice reorganization, reactive architecture, etc.)
- Scrum environment

Technologies: Angular, NodeJS / Express,

#### SENIOR IT CONSULTANT, ING LUXEMBOURG, LUXEMBOURG - 06/2019 - 09/2019

- Freelance mission
- Short and specific mission on the implementation of an anti-phishing strategy in the main customer banking application (web/mobile) upon the stack Java 8 / Angular
- Led the team on frontend and versioning (Git) best practices for daily development and to prepare the upgrade to a most recent version of AngularJS
- Help the team to adopt agile methodologies (Scrum)

Technologies: Angular, Java, Spring Boot

#### SENIOR FRONTEND DEVELOPER, BANQUE DE LUXEMBOURG, LUXEMBOURG - 10/2018 - 04/2019

- Freelance mission
- Led the front-end development of applications in the domain of private banking ( Backbase / AngularJS )
- Daily helped and coached the junior team of 8 front-end developers
- Worked in an agile environment ( Scrum ) and help the Scrum Master in the agile education of the team

#### SENIOR IT CONSULTANT, SFEIR, LUXEMBOURG - 2013 - 2018

- Full-stack technical leader / architect in front-end and back-end development as part of a dozen of client missions (e.g. Foyer Assurance, Société Générale, Victor Buck Services, Champ Cargolux, etc. )
- Please, find the detailed projects descriptions below

#### TEAM LEADER COORDINATOR, SFEIR, LUXEMBOURG - 2017 - 2018

- Coordinated Sfeir team leading activity
- Organized workshops and meetings with team leaders to improve consultant and company life
- Been a creative force to the company global strategy and establishing bridges with the overall team leading in Sfeir group

#### TEAM LEADER, SFEIR, LUXEMBOURG - 2016 - 2018

- Managed a team of 10 consultants working at different customers offices, of their career development, mentoring them, collecting customer feedbacks, defining objectives and involving into the annual appraisal process

#### DIGITAL IT ARCHITECT, FOYER ASSURANCES - 2017 - 2018

- Consultant mission
- Responsible of front-end architecture & good practices in Foyer applications (mobile/web)
- Organized technical workshops for developers and business-oriented workshops for digital roadmap and brainstorming
- Daily helped and coached all IT teams ( Typescript, Angular, Rxjs, etc. )
- Implemented several advanced architectures / patterns such as Progressive Web App, Web Components, GraphQL, OIDC / OAuth, etc as PoC or as part of existing applications
- Involved in the Foyer chatbot project as the main technical expert
- Implemented PoC of chatbot applied in Human Resources domain using and/or testing Nanorep, Google Dialog Flow and Facebook wit.ai, etc.
- Worked in an agile environment ( Scrum )

Technologies: Angular, Scala, GraphQL

#### TEAM LEADER - FRONTEND ARCHITECT, SOCIETE GENERALE - 2017

- Consultant mission
- Led the front-end development of two web-based applications in the trading domain
- Defined the front-end architecture, guidelines and best practices in Angular
- Coached and helped the junior developer team.
- Supported the back-end team as part of the microservice architecture.
- Helped in the application of Scrum best practices

Technologies: Angular

#### ANGULAR COACH, CHAMP CARGOLUX - 2017

- Consultant mission
- Coached for a week the Champ Cargolux front-end team ( 8 persons ) in Angular

#### FULL-STACK TECH LEAD, LEGITECH - 2014 - 2017

- Consultant mission
- Led the realization of 4 applications in the context of electronic document management applied on all Luxembourgish legal documents.
- Daily team management, project plan and schedule
- Ensured application of best practices in front-end / back-end development (Angular / Spring ). BDD approach applied.

Technologies: Angular, Java, Spring Boot

#### LEAD FRONT-END DEVELOPER, NEOPIXL - 2014

- Consultant mission
- Led the front-end development in AngularJS and Ionic as part of the yellow.lu mobile application.
- Supervised the work of a junior developer.

Technologies: Angular, Ionic

#### LEAD FRONT-END DEVELOPER, LOMBARD ASSURANCE - 2014

- Consultant mission
- Led the front-end development in AngularJS as part of a cash flow management application.
- Worked in an agile environment ( Scrum )

- Technologies: Angular

#### FULL-STACK DEVELOPER, VICTOR BUCK SERVICES - 2013

- Consultant mission
- Full-stack developer as part of an application in the Key Information Documents ( KID ) domain.

Technologies: GWT, Java, Spring

#### TEAM LEADER / WEB DEVELOPER, FREELANCE - 2012 - 2013

- Managed my own e-commerce website involving up to 10 collaborators.
- Designed and developed web sites / applications for several Small and Medium Enterprises.

#### TEAM LEADER / R&D ENGINEER, CENTRE HENRI TUDOR - 2010 - 2012

- Managed the R&D team Data Mining applied on e-assessment (3 collaborators).  
I work on issues related to Data Mining, Data Fusion
- Developed Java-based applications related to data fusion algorithms and to Web Semantics and Multi-Agent System for complex systems using the JADE framework.
- Published and presented technical / scientific papers in conferences and workshops.

#### BUSINESS ANALYST, METRUM, LUXEMBOURG - 2009 -2010

- Gathering and analyzing client requirements.
- Wrote functional and technical specifications
- Supported the development team as facilitator in the projects achievements.

#### R&D ENGINEER, ORANGE LABS, LANNION - 2004 - 2009

- Research & development in the field of Artificial Intelligence, namely conversational AI agent and multi-agent system. Today, we named them LLM.
- Published and presented a dozen technical / scientific papers in international conferences.

## Skills

### FRONT-END DEVELOPMENT

- Javascript, Typescript, React, Angular 2+, CSS/SASS, Webpack, Ionic, StencilJS, Bootstrap / Material Design / Semantic UI / Tailwind / PrimeNG,, Figma (for developer)

### BACK-END DEVELOPMENT

- NodeJs / Express / NestJS, Java, Spring/Spring Boot/Spring Data

### DATABASE

- PostgreSQL, Oracle, MongoDB, Firebase, Solr / Lucene

### CI/CD

- Docker, Jenkins

### CLOUD

- GCP, Firebase Host / Functions

### TOOLS / IDE

- IntelliJ / Webstorm, VS Code, Git, Jira, Confluence, Sonar

### TESTING

- Cypress, Jest, Karma, Jasmine, Unit, Mockito, TDD / BDD-mindset

### PROJECT MANAGEMENT

- Leadership, Public speaking, Planning, Problem Solver, Organization,

### AGILE METHODOLOGIES / TOOLS

- Scrum Master, Kanban

### LANGUAGES

- French - English - Dutch ( scholar )

## Education

### PH D IN COMPUTER SCIENCE, 2007

Université de Rennes 2

PH D in the field of AI, namely Conversational AI Agent and Multi-Agent Systems.

Thesis not defended

### IT ENGINEER, 2004

Ecole Supérieure en Science Informatique, Sophia-Antipolis

#### MA RESEARCH IN THEORETICAL COMPUTER SCIENCE, 2004

Ecole Doctorale STIC, Sophia-Antipolis

#### ERASMUS PROGRAM, 2002 - 2003

Trinity College of Dublin

## Certification

#### SCRUM MASTER, 2018

PSM1 / Scrum.org

#### PRINCE2, 2016

Foundation & Practitioner

## Miscellaneous

#### TECHNICAL SPEAKER

At the beginning of my career, I used to present talks in the domain of Artificial Intelligence as Ph R&D Engineer ( <https://dblp.uni-trier.de/pers/hd/d/Devooght:Karl> ). In recent years, I have presented more Web Development oriented talks in Luxembourg (technical company meeting, MeetupJS, Voxxed Days).

#### SFEIR INNOVATION CHALLENGE, 2015 - 2018

Creator and co-organizer of the Sfeir Innovation Challenge, a competition in which Sfeir mates rack their brain to find, develop and demonstrate the most innovative IT idea during 8 months. I'm proud to say that more than 30 projects have been initiated ( and a good part achieved ) by more than 50 workmates within 3 years.