



# Bart Kleijngeld

Data Architect | Software Developer

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Data Architect and Software Developer with expertise in semantic modeling, knowledge graphs, Linked Data, and decentralized architectures. Skilled at designing, implementing and explaining high quality, pragmatic solutions that are simple, scalable and maintainable. Passionate about enabling others to work more efficiently and enhance collaboration, whilst bridging the gap between technical and non-technical stakeholders.

## Work Experience

### Alliander

#### Data Architect / Software Developer (Netbeheer Nederland)

Sep 2024 – present

- Enabled semantic modeling and documentation including the choice of languages and standards, tooling, and process automation.
- Transformation of CIM/CGMES models into open-source Linked Data formats for easier use by developers and machines.
- Contributed to a CIM working group to improve model maintenance, interoperability, and usability.
- Provided advice on information modeling and data architecture as a member of a NBEA working group.

#### Data Architect / Software Developer (Energie Data Services Nederland)

Oct 2024 – Jul 2025

- Initiated and led a proof of concept to help EDSN adopt modern, machine-readable, and standardized information modeling.

#### Data Architect / Software Developer (Research Center for Digital Technologies)

Oct 2023 – Jul 2024

- Collaborated with students and PhDs from HAN Data & Knowledge Engineering, balancing coordination with hands-on research and implementation.
- Explored LLM-based approaches to generate knowledge graphs from wiki and PDF documents.

#### Data Architect / Software Developer (Data Office)

Feb 2022 – Sep 2023

- Authored W3C standards-compliant definitions including a URI policy and DCAT-based data product specification.
- Developed software to generate technical schemas from information models.
- Designed metadata-driven Data Mesh architecture based on FAIR principles and Linked Data.

#### Software Developer (Team FAAM)

Jul 2019 - Feb 2022

- Co-developed API and libraries to support image recognition model workflows.
- Maintained DevOps using Jenkins, Kubernetes, and Git.

## Test Automation Engineer / Software Developer (Realisatieketen KV)

Nov 2017 - Jul 2019

- Developed business-friendly test suites and reusable test code for SOAP messaging on the Digitaal Samenwerkingsplatform (DSP).
- Built an end-to-end testing application (frontend and backend) from requirements to implementation.

## Past Experiences

**Web Developer (Ensie)**  
Jun 2016 – Sep 2016  
Developed new features for the website.

**Developer (Clipit News B.V.)**  
Apr 2015 – Sep 2016  
Wrote XSL templates to scrape websites and initiated and developed a web application to help the team manage the workload.

**Web Developer (HostingXS B.V.)**  
Apr 2014 – Jul 2014  
Developed new features for the customer control panel.

**Web Developer (Emixion)**  
Aug 2013 – Sep 2013  
Built customer websites.

**Software Developer / Lead Customer Service (e-cube)**  
Apr 2011 – Feb 2013  
Wrote BI applications for web shops, maintained wiki and was lead of the service desk.

## Skills & Competencies

<b>Data / information modeling and standards</b>	FAIR, W3C, Semantic Web (RDF(S), SKOS, OWL, SHACL), Linked Data, DCAT, LinkML, UML, IEC CIM, SQL DDL, Avro Schema, OpenAPI / JSON Schema, Knowledge Graphs
<b>Architecture</b>	Web Architecture, REST, Domain-Driven Design, Data Mesh, Object-Oriented Programming
<b>Software development and DevOps</b>	Model and metamodel transformations, Python, Clojure, Docker, Linux, GitHub Actions, AsciiDoc, Functional Programming, REST APIs
<b>Languages</b>	Dutch (native), English (fluent)
<b>Soft skills</b>	Teaching and presenting, Advising, Cross-functional collaboration, Technical writing

## Education

### Mathematics

2006-2011

Developed strong problem-solving skills by tackling challenging, abstract mathematical problems. Also followed programming and CS courses.

### Mathematics Teacher Education

2005-2006

Completed the first year and then enrolled at Radboud University.