



Bart Kleijngeld

Data Architect | Software Developer

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Data Architect and Software Developer with expertise in semantic (data) 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 (NBNL)

Sep 2024 – present

- Responsible for enablement of modeling, including languages, standards, tooling, and automation.
- Developed model transformations of CIM/ CGMES models for easier use by developers and machines.
- Member of CIM working group improving model maintenance, interoperability and usability.
- Member of NBEA working group providing advice on information modeling and data architecture.

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, 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, combining coordination with hands-on research and implementation.
- Researched LLM-based approaches to generate knowledge graphs from wiki and PDF documents.

Data Architect / Software Developer (Data Office)

Feb 2022 – Sep 2023

- Wrote 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 work 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 through 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 created 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

Data/ information modeling and standards	FAIR, W3C, Semantic Web (RDF(S), SKOS, OWL, SHACL, etc.), Linked Data, DCAT, LinkML, UML, IEC CIM, SQL DDL, Avro schema, OpenAPI/JSON Schema
Architecture	Web Architecture, REST, Domain Driven Design, Data Mesh, Object Oriented Programming
Software development and DevOps	(Meta)model transformations, Python, Clojure, Docker, Linux, GitHub Actions, AsciiDoc, Functional Programming, REST APIs
Languages and soft skills	Dutch (native), English (fluent), teaching/educating, cross-functional collaboration, technical writing

Education

Mathematics

2006-2011

Trained to think like a mathematician and solve challenging, abstract problems. Also followed programming and CS courses.

Mathematics Teacher Education

2005-2006

I completed the first year and then enrolled at the Radboud University.