



Schobert Néo

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Profile Summary

Computer science engineer graduating from IMT Atlantique in December 2026, with a bachelor's degree in Fundamental Mathematics. Applies generative AI and semantic web technologies to real industrial problems — currently R&D intern at Infineon Technologies, Munich: designed and shipped a six-service platform that makes a 1,300-class enterprise ontology explorable, alignable and queryable in natural language through GraphRAG. Complementary hands-on background in Industrial IoT and automation (EtherNet/IP, OPC-UA, MQTT, edge/cloud).

Full-stack developer (Python, TypeScript, React, Node.js); leads a 150+ member association. Seeking an engineering position in applied AI and knowledge graphs from January 2027.

Education

IMT Atlantique, Master's in Engineering – Computer Science specialization, graduating December 2026 2023 – 2026

Coursework: Knowledge Representation & Semantic Web, Machine Learning & AI, Software Engineering, Distributed Systems, Cloud Architectures, Cybersecurity, Networks & Protocols

University of Western Brittany, Bachelor's in Fundamental Mathematics 2023 – 2024

Coursework: Linear Algebra, Lebesgue Integration, Commutative Rings, Group Theory, Arithmetic

CPGE Montaigne, Preparatory Course for the French Grandes Écoles — Mathematics, Physics, 2020 – 2023
Computer Science, Computational Theory

Experience

Research & Development Intern, *Infineon Technologies AG* – Munich, Germany July – Dec 2026
Corporate Supply Chain Innovation (CSC E IN)

- **Ontology Explorer** — designed and shipped a six-service platform to import, explore, align and query enterprise OWL/RDF ontologies: React/Vite SPA with 3D force-directed graph, Node/TypeScript API on an in-process Oxigraph triplestore, PostgreSQL, Docker, deployed on the internal cloud
- **GraphRAG chat engine** (TypeScript, stateless): hybrid vector + lexical retrieval, LLM routing (lookup / SPARQL / graph traversal), self-correcting SPARQL generation, answers grounded with citations — preceded by a state-of-the-art review of GraphRAG methods
- **Ontology alignment toolkit** (Python): 12 lexical, structural and semantic matchers, multi-stage pipeline, SKOS/SSSOM exports, served as a stateless HTTP API
- **Enterprise ontology audit** — corporate supply chain model (1,368 classes, 1,663 properties, 41 modules): 126 documented fixes to hierarchy, domains/ranges, namespaces and definitions
- **News watch & customer insights** — versioned scraping, LLM change-judging and a bitemporal claim graph over the supply chain knowledge graph, read-only API for other teams
- **Stack:** RDF, OWL, SPARQL, SHACL, Oxigraph, GraphRAG, LLMs, Node.js, TypeScript, React, Python, PostgreSQL, Docker

R&D Engineering Intern, *MA Solutions* – France June – Sept 2025

- Designed and deployed a full IIoT architecture replacing legacy PLC machines (Panel PC + EtherNet/IP I/O board): remote maintenance, OTA updates and machine control — 10+ orders confirmed
- Developed a web platform (client portal + admin dashboard) for fleet management, remote access provisioning and regulatory traceability
- Retrofitted existing PLC machines with an OPC-UA server on VPS: remote monitoring and control without hardware change
- **Stack:** EtherNet/IP, OPC-UA, Panel PC (Linux), Node.js, React, TypeScript, SQL, VPS/Cloud

Dance Instructor & Association Director, *SalsaDeRue* – Finistère, France 2023 – Present

- Managed a 150+ member organization with full financial and operational responsibility
- Built a full-stack web & mobile app (React, React Native, TypeScript, Node.js, Firebase)

Production Intern, *Serralharia Rolo* – Porto, Portugal — hands-on work in an industrial production environment June – July 2024

Projects

Laundry Workflow Optimization (2020) — Python algorithm optimizing linen processing order in hospital laundries, cutting machine downtime. **Firewall & NAS Deployment** (2021) — network firewall + NAS server, migration from a legacy Unix server.

Technologies

AI / Semantic Web: RDF, OWL, SPARQL, SHACL, SKOS, SSSOM, knowledge graphs, GraphRAG, LLMs, embeddings, vector search

Languages: Python, TypeScript, JavaScript, C++, Java, SQL, Git **Frameworks:** React, React Native, Node.js, HTML/CSS

Industrial / IoT: EtherNet/IP, OPC-UA, MQTT, Modbus, Panel PC/edge, VPS/Cloud, Linux **Tools:** Oxigraph, Docker, GitHub, Firebase

Languages

French: Native **English:** Fluent – IELTS 7.5 (C1) **Spanish:** Intermediate (B1) **Portuguese:** Intermediate (B1)

Interests

Latin dance (Salsa, Bachata – teaching & events organization) Applied AI & knowledge graphs Open-source projects Travel