Terencio **AGOZZINO**

Solutions Architect

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Summary

Solutions Architect with 5+ years across cloud, data and software, on AWS and Azure. I design secure cloud foundations, migrate data platforms, and automate the infrastructure that runs them, from multi-account CI/CD pipelines to IoT at the edge. AWS Certified Solutions Architect and DevOps Engineer – Professional. Before consulting, I co-authored two research papers at IDLab – imec and built `pyRDF2Vec`, a library widely cited by the research community. In my free time, I enjoy chess, piano, cycling, and writing.

Experience

Partenamut — CBTW Consultant — *Brussels, Belgium*

AWS Platform Engineer / Solutions Architect — *August 2026 - Present*

- Built a multi-account CI/CD pipeline factory with AWS CDK and CodePipeline, and a central monitoring platform across accounts.
- Put AI document processing into production with Amazon Textract and Bedrock, orchestrated by AWS Step Functions.
- Loaded 18 tables daily into Amazon Redshift.

AWS CDK **CodePipeline** **Step Functions** **Lambda** **Textract** **Bedrock** **Redshift** **Terraform**

CBTW — *Brussels, Belgium*

Solutions Architect — *March 2026 - August 2026*

- Responded to RFPs, defining solution architectures, technical approaches, and implementation plans on AWS and Azure.
- Contributed to the AWS Partner Network program to maintain CBTW's AWS Advanced Tier Services Partner status.
- Designed and built with Terraform the AWS foundation of an internal enterprise AI platform, with its security, networking, and IAM standards.

Terraform **Amazon Bedrock** **AgentCore** **Textract** **Lambda** **API Gateway** **DynamoDB** **IAM**

Deloitte — *Zaventem, Belgium*

Solutions Architect — *December 2025 - January 2026*

- Designed cloud platform proposals for clients, with secure AWS & Azure Terraform modules and starter kits (e.g., EKS and serverless applications) to accelerate cloud adoption and ensure compliance with security best practices.
- Conducted security reviews and implemented guardrails to maintain a secure cloud environment across multiple projects.
- Collaborated with development teams to optimize cloud architecture patterns and improve deployment processes.

AWS **Azure** **Terraform** **EKS** **Serverless**

Sparkle — Nemeon Consultant — *Kontich, Belgium*

Azure Data Engineer — *October 2025 - November 2025*

- Built a Python solution that summarizes civil engineering documents on water gate infrastructure, read from Azure Blob Storage.
- Generated the summaries with GPT-5 mini on Azure AI Foundry, as JSON with token counts and confidence scores.
- Enriched each document's context by cross-joining Excel sources before summarization, in a containerized Azure pipeline.

Python **Azure AI Foundry** **GPT-5 mini** **Azure Blob Storage** **Docker** **Azure Pipelines**

Logistics Clients — Nemeon Consultant — *Kontich, Belgium*

Solutions Architect — *August 2025 - November 2025*

- Designed and implemented Microsoft Fabric environments for more than five logistics clients.
- Built and optimized data pipelines to ingest and process data from Boltrics and TAS environments, ensuring data integrity and performance.
- Implemented data governance and quality frameworks within Microsoft Fabric to maintain data reliability across logistics operations.

Microsoft Fabric **Azure Data Factory** **SQL** **Data Modeling**

Envalior (Former DSM) — Nemeon Consultant — *Geleen, Netherlands*

Solutions Architect — *January 2025 - August 2025*

- Migrated, in a team of eight, Envalior's data platform (around 30 business use cases) from DSM's AWS environment to Envalior's new landing zone, without disrupting operations.
- Moved the data, compute, and infrastructure of each use case, ensuring data integrity and infrastructure consistency throughout the migration.
- Applied the Scrum framework throughout the migration lifecycle.

AWS CDK **CloudFormation** **CodePipeline** **Lambda** **Glue** **Athena** **PySpark** **CyberArk**

Envalior (Former DSM)

Nemeon Consultant — *Geleen, Netherlands*

AWS Cloud Developer — *September 2022 - December 2024*

- Implemented data provisioning for multiple SAP and B&W tables using Theobald jobs and AWS Glue jobs and crawlers for the raw, cleansed, and harmonized layers at the CDK level, enhancing data quality and availability for reporting and finance squads.
- Led the migration of four manufacturing plants to AWS IoT Greengrass V2, leveraging CDK, GNU/Linux, and Docker.
- Enhanced Microsoft SQL Server and OPC UA implementations for data collection from AspenTech, Siemens, and WonderWare servers.
- Orchestrated data processing workflows with AWS Step Functions, Lambda, Glue, and S3.
- Supported junior engineers through code and IaC reviews, and contributed to the AWS Guild to resolve AWS-related challenges.

IoT Greengrass V2 **AWS CDK** **Glue** **Step Functions** **Lambda** **Athena** **PySpark** **Docker** **Theobald**

SoccerLAB

Nemeon Consultant — *Hasselt, Belgium*

Software Engineer — *August 2022 - September 2022*

- Conducted a Proof of Concept to evaluate the performance and stability of Svelte compared to React and Angular.
- Applied the Atomic design methodology to improve the development of the User Interface, increase stability, and enhance the consistency of the digital experience.
- Created component documentation using Storybook.

Svelte **SvelteKit** **TypeScript** **Storybook** **Tailwind CSS** **Carbon Design System**

Datavillage

Nemeon Consultant — *Liège, Belgium*

Data Scientist — *January 2022 - April 2022*

- Evaluated Knowledge Graphs based on metrics such as purity rate, deployment time, usage, and cost.
- Conducted a Knowledge Graph migration to enhance the recommendation system for end users.
- Improved the recommendation system performance by minimizing HTTP latency related to SPARQL queries and reducing the algorithmic complexity of Cypher queries and Python implementations.
- Provided recommendations for improving the implemented AWS Cloud architecture.

Python **Neo4j** **SPARQL** **Cypher** **DBpedia** **Wikidata**

IDLab – imec

Ghent, Belgium

Machine Learning Intern — *February 2021 - June 2021*

- Developed `pyRDF2Vec`, a state-of-the-art API to facilitate development in the scientific community, choosing appropriate architecture and design patterns, as well as the implementation of linters, Continuous Integration (CI), Continuous Delivery (CD), and Continuous Testing (CT).
- Improved the processing time of Knowledge Graphs by introducing optimization mechanisms such as the use of cache memory to reduce HTTP latency, multiprocessing, cache prefiling, and the use of appropriate data structures and a connection pool.
- Developed an online learning solution to prevent the need for complete retraining of the model on the Knowledge Graph, but only update with new data added to the Knowledge Graph.
- Implemented and evaluated BERT and other recent embedding techniques within RDF2Vec as part of my Master's thesis.

Python **Jupyter** **Google Colab** **CI/CD** **Git**

Open Summer of Code

Brussels, Belgium

Developer (Student Job) — *July 2020 - August 2020*

- Developed a web application that uses `RML.io` to generate high-quality Linked Data for creating Knowledge Graphs.
- Led a student team in the execution of the project.

React **Node.js** **Docker**

Open Summer of Code

Brussels, Belgium

Developer (Student Job) — *July 2018 - August 2018*

- Developed the web application of Prisma, which has since become `Soulcenter`.

Vue.js **Laravel** **JavaScript**

Centre de Recherche de la Haute École en Hainaut (CReHEH)

Mons, Belgium

Trainee Developer — *February 2018 - May 2018*

- Designed an API and a CLI for the Haute École en Hainaut as part of my Bachelor's thesis.
- Enhanced visual recognition and motion of the NAO robot through image processing.
- Created interaction scenarios with the NAO robot to engage with vulnerable children (e.g., children with autistic and behavioral disorders).

Python **OpenCV** **NAO**

Publications

pyRDF2Vec: A Python Implementation and Extension of RDF2Vec

Springer Nature Switzerland

Gilles Vandewiele, Bram Steenwinckel, **Terencio Agozzino** & Femke Ongenae — *May 2023*

Publication URL: `https://link.springer.com/chapter/10.1007/978-3-031-33455-9_28`

INK: Knowledge Graph Embeddings for Node Classification

Data Mining & Knowledge Discovery

Bram Steenwinckel, Gilles Vandewiele, Michael Weyns, **Terencio Agozzino**, Filip De Turck & Femke Ongenae — *January 2022*

Publication URL: `https://link.springer.com/article/10.1007/s10618-021-00806-z`

Certifications

2026	**Microsoft Certified: Azure Administrator – Associate (AZ-104)**, Microsoft	*98B6957B2AFF0807*
2024	**AWS Certified DevOps Engineer – Professional (DOP-C02)**, Amazon Web Services (AWS)	*AWS02487783*
2023	**AWS Certified Solutions Architect – Professional (SAP-C02)**, Amazon Web Services (AWS)	*AWS02487783*
2023	**Microsoft Certified: Microsoft Azure Data Fundamentals (DP-900)**, Microsoft	*EFEA16025A011943*
2022	**Microsoft Certified: Microsoft Azure AI Fundamentals (AI-900)**, Microsoft	*5E5B68B771431084*
2022	**Professional Scrum Master™ I (PSM I)**, Scrum.org	*827516*
2022	**AWS Certified SysOps Administrator – Associate (SOA-C02)**, Amazon Web Services (AWS)	*AWS02487783*
2022	**AWS Certified Developer – Associate (DVA-C01)**, Amazon Web Services (AWS)	*AWS02487783*
2021	**AWS Certified Solutions Architect – Associate (SAA-C02)**, Amazon Web Services (AWS)	*AWS02487783*
2021	**Microsoft Certified: Azure Fundamentals (AZ-900)**, Microsoft	*C2F2056E74C434F*
2021	**AWS Certified Cloud Practitioner (CFL-C01)**, Amazon Web Services (AWS)	*AWS02487783*
2021	**SCO-VCA**, BeSaCC-VCA	*BE000132FR205386*

Skills

Cloud & Security	AWS · Azure · Landing Zones · IAM · Security Guardrails · IoT Greengrass
IaC & CI/CD	AWS CDK · CloudFormation · Terraform · CodePipeline · GitHub Actions · Docker
Data	AWS Glue · Step Functions · Redshift · Athena · Microsoft Fabric · Azure Data Factory · PySpark · SQL
AI & Research	Amazon Bedrock · Machine Learning · NLP · Knowledge Graphs · PyTorch
Programming	Python · TypeScript · Bash · Java · C#
Languages	**French:** native | **English:** fluent | **Dutch, Italian:** basic

Education

Haute École en Hainaut (HEH) — *Mons, Belgium*
Master, Computer & Systems Engineering — *September 2018 - June 2021*

Haute École en Hainaut (HEH) — *Mons, Belgium*
Bachelor, Networks and Telecommunications — *September 2015 - June 2018*

Université de Mons (UMons) — *Mons, Belgium*
Bachelor, Computer Science — *September 2013 - June 2015*

Honors & Awards

2021	**Honorable Mention**, 7th Cyber Security Challenge Belgium	*Brussels, Belgium*
2020	**Honorable Mention**, 6th Cyber Security Challenge Belgium	*Brussels, Belgium*
2020	**Honorable Mention**, 3rd WIRE.HACK Hackathon	*Kortrijk, Belgium*

Presentations

3rd Edition of the Cybersecurity Day by the Haute École en Hainaut — *Mons, Belgium*
Presenter for <BERT is All You Need> — *December 2020*

2nd Edition of the Cybersecurity Day by the Haute École en Hainaut — *Mons, Belgium*
Presenter for <New Vulnerabilities in 4G/5G Networks> — *December 2019*

References

Available upon request: Master's thesis advisor and supervisors at IDLab – imec (Ghent University).