

# Gerrit Geeraerts

*Bridging the gap between today's programming and tomorrow's AI, while deeply rooted in the open-source community's collaborative spirit.*

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## About Me

I first got in touch with computers when I was 7 years old, Windows 3.11 in the full 16 colors, magical! Since then, I have been passionate about technology. With a core value to leverage the abilities of computers to make our lives more productive. I have been personally inspired by this for over 30 years, working on numerous home projects. Professionally, I have about 1 decade of experience in IT. Most of it was as a system engineer, exploring and learning new systems and connecting them through coding.

But today, I see more potential in Data & Artificial Intelligence. It has the power to make a bigger difference in our productivity. This inspired me to pursue a training at BeCode as a Data Engineer.

As a person, I am a collaborative team player with a passion for continuous learning and knowledge sharing. Motivated, a creative problem-solver, leveraging critical thinking and analytical skills to find robust solutions. I am a generalist with a broad interest range.

My goal now is to grow and apply my technical expertise as a Data Engineer to build robust solutions that leverage the capabilities of Artificial Intelligence.

## Experience

- 2024

**AI Engineer**, Cronos (SUMSUM), Leuven, Belgium

As part of my becode training I completed my 3-month internship at SUMSUM.

**RAG Demo For Customers**: Building a template for quickly setting up demo's for customers that allow them to chat with their own documents and or website.

**Project Manager Assistant**: A chatbot that generates visual reports with projects data.

**Skills**: **Python, LLM, RAG, GPT, Git, Langchain, Langgraph, Langsmith, Ragas, Streamlit, Docker, Elasticsearch, AWS**: Bedrock, S3, Opensearch, EC2
- 2024

**Data Engineer Trainee**, Becode, Ghent, Belgium

A full time 6-month AI training with a focus on data engineering:

**Credit Card Churning**: Azure ML Infrastructure with Terraform and MLflow, Predicting Customer Credit Cancells.

**Immo App**: Deploying Immo Prediction model with Streamlit and FastAPI

**Immo ML**: Fixing an OLTP database and making a new OLAP database from it.

**Wine Market Analysis**: Fixing an OLTP database and making a new OLAP database from it.

**Skills**: **Python, NLP, LLM, RAG, GPT, FastAPI, Git, Agents**

**Skills**: Kubernetes, Selenium, Playwright, ML Ops, **Scrapy, MLflow, Streamlit, Docker, SQL**, Graph Databases, Sklearn, Catboost, **Azure** Cloud, Terraform.

**More**: Check out my GitHub for more details: [GitHub](#)
- 2024

**System Engineer**, Viso Cor Mariae, Brakel, Belgium

To bridge the time until the start of my AI course at Becode, I volunteered at Viso Cor Mariae, a school where they did not have anyone for IT. I analyzed their IT infrastructure, created a roadmap, and started implemented solutions. Together, we searched for a new IT Professional and worked together to ensure a smooth transition.

**Skills**: **Azure Cloud**
- 2019-2023

**System Engineer**, Kasterlinden, Sint-Agatha-Berchem, Belgium

**Digitalizing Education**: We provided iPads to all students and staff, managed them efficiently using barcodes and synchronization, and integrated them with existing educational platforms.

**Account management / synchronization / SSO**

**Cloud Migration**: Migrating from a hybrid environment to **Azure** cloud only environment.

**Application Self-Service**: I created a tool to streamline the creation of Intune packages, enabling users to install software through a self-service portal.

**Modern Inventory Management**: We developed an automated inventory system that hooked in to SQL database of lansweeper for improving asset management and oversight.

**Give Trainings**: Exploring modern educational ways to teach. Motivating and training teachers to work with modern education tools like iPads.

**Network Management**: Collaborating closely with our parent organization, to manage our Wi-Fi, lan, wan, firewalls.

**Skills**: **Python, Django, Docker**, Selenium, , Apple School Manager, **Azure** Cloud AD, **Git, LLM**, Networking Powershell, Local AD, Intune, Lansweeper, **SQL, HTML, CSS**

2019 - Nu **Home projects**  
**LLM search assistant:** A multi-agent system that emulates human browsing on a website to find an answer to a user question.  
**Crypto bots:** Sentiment analysis for optimal trading.  
**YouTube caption search:** Search within your subscribed content.  
**Gmail unsubscribe finder:** Easily locate and manage email subscriptions.  
**Liquidity pool sniper:** Detects and invests in new liquidity pools for optimal yields.  
**Custom keyboard:** Typewriters were invented in the 1800's where the mechanics played a key role on how it was designed. A lot of where projected on to keyboard as we know today. But they are anything but modern. So I soldered my own modern design keyboard based on the QMK Firmware.  
**Skills:** **Python, Django, Docker**, Linux, **Git, SQL**, Rest API, **HTML, CSS**, Selenium, **Scrapy**, Celery, Redis, Proxmox VM, **SQL, LLM, Langchain, Langgraph, Langsmith**  
**More:** Check out my GitHub for more details: GitHub

2014 - 2018 **System Engineer**, Metro Group, Wommelgem, Belgium  
**User management:** Migrating from generic accounts to personal accounts, automating creation of user accounts and generating documentation.  
**Exchange:** Managing generic mailboxes and a self-service tool.  
**Network:** Managing the lan, Wi-Fi, firewalls and setting up new stores.  
**Support:** First and second line support.  
**Skills:** Firewall, Powershell, Switches, DHCP, DNS, Wlan, AD, Confluence, MS exchange, **SQL**, Kanban, Scrum

2011 - 2014 **Sales Digital world**, Metro Group, Sint-Pieters-Leeuw, Belgium  
Creating a great customer experience, listening to the needs of the customer and translating it to the correct product.

2012 **Teacher ICT**, GLTT, Halle, Belgium  
I love breaking down information into small and easy to understand concepts which makes it easy to understand for students.

2009 - 2010 **Chief employee IT**, University Ghent, Belgium  
Writing a user story and developing a workflow tool for sales, laborants, customers and administration department.  
IT infrastructure management and support together with the central IT department.  
**Skills:** .NET, **SQL**, HTML, CSS, Firewall, switches, DHCP, DNS, Wlan, AD, DNS, Deployment

**Other Skills** - **Languages:** Mother Tongue in Dutch, very good English, very good French  
**Soft Skills:** **Team player, eager to learn and teach, motivated, calm and thoughtful, creative, critical thinking, problem-solving, analytic.**

**Education** 2005 - 2008 **Professional Bachelor ICT**, KaHo Sint-Lieven, Ghent, Belgium  
1999 - 2005 **Industrial Sciences**, Don Bosco, Halle, Belgium

**Hobbies** Hiking w/wo tent, Renovating, DIY projects, Running, Mountain biking, Dancing, Exploring new Tech.