

# 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 and development.

Today, Data and Artificial Intelligence are revolutionizing the way we work, offering immense potential to enhance productivity. This surge in technology inspired me to pursue 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 is to continuously expand my technical expertise by learning and integrating the latest technologies to build robust solutions that enhance our productivity and efficiency.

## 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.