# 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 — **LLM 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 Cancels.

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**

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| 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 where 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.