

ir. Mykel Schmidt

AI Engineer

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SUMMARY

AI Engineer with an MSc in Human-Technology Interaction. I develop AI solutions (GenAI, LLMs, RAG, Agentic AI) and have certified expertise in the cloud (Microsoft Azure ecosystem). My academic background uniquely positions me to turn complex ideas into user-friendly solutions.

While I started my corporate career recently, I bring nearly a decade of full-stack software experience and have been working closely with LLMs and other generative AI since their inception, and have a deep understanding of, and passion for, the underlying technology.

EXPERIENCE

K Founder & AI Engineer – KeyTakes

Independent 06/2025 - Present keytakes.com

I engineered a **full-stack AI SaaS application** from concept to deployment. KeyTakes summarizes webpages and YouTube videos, with bias-detection and many other features.

- Implemented **RAG** using vector embeddings and cosine similarity to integrate an **AI chatbot** into the generated summary.
- Built a robust **web scraping** service with Puppeteer.
- Architected a scalable backend w/ asynchronous serverless functions.
- Streamed results to the Next.js frontend w/ Server-Sent Events (SSE).
- Implemented storage and authentication using Google Firebase, and integrated a payment platform to monetize the SaaS product.

FLEXIT AI Engineer

Flex IT Rent (via E-mergo) Leiden, Netherlands

For the client Flex-IT, I led the design of a **multi-agent AI solution**. The system automates component compatibility checks by scraping both web and internal data sources (e.g., inventory), and using LLM agents to extract structured answers from unstructured data.

- Analyzed the client's data architecture and business processes to design a tailored **RAG** AI solution.
- Built the PoC using **Azure AI Foundry's Prompt Flow, Microsoft Autogen, Python, and Web scraping**, demonstrating the system's feasibility.
- Successfully presented the business case, providing the client with a clear, actionable path forward.
- Received a perfect personal evaluation** from the client, and E-mergo received the green light to move forward with the project with Flex-IT.

Data Engineer

Eindhoven Airport (via E-mergo) Eindhoven, Netherlands

For the client Eindhoven Airport, I set up a data warehouse using TimeXtender, configuring servers, databases, and APIs to handle high-volume streaming data and changing dimensions.

emergo Data & AI Engineer

E-mergo 05/2024 - 05/2025 Delft, Netherlands

Gained foundational experience in enterprise data ecosystems through consulting work for various clients, while actively driving an AI initiative and securing six Microsoft certifications. Other notable activities, besides the two detailed above:

- Integrated APIs for various clients to establish incremental data loading patterns, combining endpoints to create a unified data flow for analytics in Power BI.
- Provided enterprise IT support, including Azure access control, user provisioning, and dashboard maintenance for clients like IKEA.
- Migrated transformations from Qlik to TimeXtender using SQL.

STRENGTHS & SKILLS

★ Software Engineering

Nearly a decade of full-stack experience. Familiar with modern DevOps practices and collaborative Agile/Scrum environments.

★ Artificial Intelligence

Integrating LLMs (GPT, Gemini, Mistral, etc.), Prompt engineering, Model fine-tuning, Model training, Retrieval-Augmented Generation (RAG), Agentic AI, Multi-Agent Workflows, Tool use, Traditional ML

★ Data Engineering

Database Modeling, Transformation, Web Scraping, Integrating APIs

★ UX

User-focused with an eye for detail, ensuring clean, intuitive, and modern solutions.

★ Effective Communication

My style is clear, concise, and honest. During my work experience, I have held many meetings with both technical and non-technical staff.

CERTIFICATION

🏆 AI-102 Azure AI Engineer Associate

Skilled in AI solutions with Azure AI, AI Search, and Azure OpenAI to meet business needs.

AI-900 Azure AI Fundamentals

Shows understanding of core AI concepts for building solutions with Microsoft Azure.

AZ-900 Azure Fundamentals

Shows understanding of cloud concepts, core Azure services, and Azure management tools.

DP-203 Azure Data Engineer Associate

Shows ability to implement and manage data engineering workloads using Azure services.

DP-900 Azure Data Fundamentals

Shows understanding of core data concepts in Microsoft Azure.

TECHNOLOGIES

Programming

Python	Java	Javascript	Node.js
Streamlit	SQL	PHP	React
Next.js	TailwindCSS		

DevOps/MLOps

Azure Devops	Git	FastAPI	Docker
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PROJECTS

Bulk Extractor AI | Document Intelligence Solution

08/2025 - Present

bulkai.streamlit.app → bulk-extractor-ai-backend.onrender.com/docs#/ (api)
Bulk Extractor AI leverages **LLMs** to extract structured JSON from large collections of unstructured documents (e.g., emails), with the extraction goal defined via a single natural language prompt from the end-user.

- Implemented three interaction modes: Command Line Interface (**CLI**), **FastAPI Web API** (hosted on Render), and a **Streamlit** frontend for user-friendly access.
- Containerized the backend with **Docker** and established a **CI/CD** pipeline in **Azure DevOps** to automatically build and publish to a container registry.
- Built an intelligent prompt generation layer that translates high-level user goals into precise, machine-readable instructions to ensure consistent, high-quality JSON output.

RAVI | Autonomous Social Media Agent

07/2025 - Present

RAVI is an **AI** that autonomously manages a creator's presence on x.com (formerly Twitter), performing tasks like messaging users, posting content, and inbox management. It's fully automated, and through **LLM integration**, particularly thinking models, it operates with full autonomy and indistinguishably from a human user.

- Architected an autonomous agent to automate complex, multi-step workflows on x.com, featuring an orchestrator to mimic human-like activity.
- RAVI uses extensive **prompt engineering** with persona-driven prompts to guide behavior—from selecting engagement targets to generating context-aware replies and high-level actions like blocking or ignoring users.

Dawn: New Tab Dashboard | AI-Powered Web Extension

07/2023 - 01/2024 dawnndashboard.com

After my studies, I took a sabbatical to work out my career direction, satisfy creative expression through 'Dawn', and pursue personal growth and fitness:

- Independently developed Dawn, an AI-enhanced browser extension promoting digital well-being that integrates the **Mistral 8×7B Large Language Model**.
- Managed the entire product development lifecycle from conceptualization to deployment.
- Applied UX design principles and programming skills to create an intuitive user experience.
- **Google has awarded Dawn** a "Featured" badge on the Chrome Web Store for exceptional quality and innovation.

EDUCATION

TU/e MSc. Human-Technology Interaction

Eindhoven University of Technology

09/2020 - 06/2023

- Achieved grades of 8 or higher in 80% of courses.
- Developed skills and knowledge in AI, computer science, user experience, data science, and product management.
- Researched a novel framework for human-AI decision making for thesis, utilizing programming and advanced data analysis.

TU/e BSc. Psychology & Technology—IT

Eindhoven University of Technology

09/2015 - 08/2020

- Specialized in the IT track due to a passion for computers and gaming.
- Built an interdisciplinary knowledge base in computer science, research methods, data analysis, business, and (user) psychology.

TECHNOLOGIES

AI

PyTorch Jupyter Google Colab

LangChain Azure AI Foundry

Azure Prompt Flow AutoGen/AG2

Model Context Protocol (MCP)

Agent2Agent Protocol (A2A)

Cloud Platforms

Microsoft Azure Google Cloud Platform

Data & BI

Google Firebase Supabase Postman

Qlik PostgreSQL TimeXtender Stata

PowerBI

Design & Other

Figma Miro Trello Photoshop

LANGUAGES

Dutch	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
English	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
German	A2	<div><div></div><div></div><div></div><div></div><div></div></div>