

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, full-stack apps, 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 over 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 05/2025 - 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 a **RAG-pipeline** 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-based AI solution**.
- Built the PoC using **Azure AI Foundry's Prompt Flow, Microsoft Autogen, Python, and Webscraping**, 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

★ Software Engineering

Over a decade of programming experience developing both front-end and back-end. I also have experience working in Scrum teams.

★ Artificial Intelligence

Generative AI: Integrating LLMs (GPT, Gemini, Mistral, etc.), Chatbots, RAG, Fine-Tuning, Prompt Engineering, Autonomous Agents, Multi-Agent Systems

Non-generative AI: Model Training, Classification, Regression, and similar predictive modeling methods.

★ Data Engineering

Database Modeling, Transformation, Web Scraping, Integrating APIs

★ UX Design

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

★ 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

Covers 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

Git SQL PHP React Next.js

TailwindCSS

PROJECTS

RAVI | Autonomous Social Media Agent

07/2025 - Present

RAVI is an **agentic 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 dawndashboard.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 8x7B 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

LLM Agentic AI Azure AI Foundry

Retrieval-Augmented Generation (RAG)

Azure Prompt Flow LangChain

Prompt Engineering AutoGen/AG2

Jupyter Google Colab

Model Context Protocol (MCP)

Cloud Platforms

Microsoft Azure Google Cloud Platform

Data & BI

Google Firebase Postman Qlik

PostgreSQL TimeXtender Stata

PowerBI

Design & Other

Figma Trello

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>