

# Mattias Holmgren

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## Summary

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Passionate, driven, and curious software engineer with a love for backend development, AI, and prompt engineering. Proficient in Python, Java, and Node.js, with solid experience in modern frontend frameworks. I have a proven track record of delivering at a senior level—consistently driving impactful solutions beyond my years of experience. I focus on efficiency, scalability, and pragmatism, always choosing the right tool for the job rather than chasing trends.

With hands-on experience in cloud infrastructure (primarily AWS), CI/CD pipelines, containerization, SQL/NoSQL databases, and source control, I thrive on tackling complex problems and architecting solutions that scale. I'm comfortable working across the stack and across environments, delivering end-to-end, production-ready systems that teams and clients rely on.

## Education

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**BSc Computer Science, Software Engineering**, Linnaeus University, Kalmar, Sweden June 2018 – July 2021

- Demonstrated a commitment to excellence, receiving a scholarship for outstanding performance on my thesis.

## Certifications

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**KCNA: Kubernetes and Cloud Native Associate** Issued January 31 2025

- Earning the Kubernetes and Cloud Native Associate (KCNA) certification demonstrates foundational knowledge of Kubernetes, cloud-native technologies, and the CNCF ecosystem. It validates skills in container orchestration, networking, and security.
- Credly badge

## Experience

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**Solution Consultant**, tietoevry – Kalmar, Sweden August 2022 – Present

- Led the development of concept proofs (PoCs) for AI-driven and cloud-native solutions, collaborating closely with clients on a daily basis to understand their needs and deliver tailored, scalable applications. Engaged in hands-on customer interactions to gather requirements, provide technical guidance, and ensure successful solution adoption. Built and deployed full-stack applications, managed AWS and Kubernetes infrastructure, and contributed to innovative AI solutions.

**Web Administrator**, Botkyrka Kommun – Stockholm, Sweden August 2018 – October 2019

- Managed CMS for a SiteVision site and worked closely with external consulting partners to implement agile methodologies.

## Skills

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**Programming Languages:** Python, Java, Typescript, Node.js, Go lang, Bash

**Frameworks:** FastAPI, Spring Boot, Next.js, NestJS, LangChain, backstage.io, React.js, AngularJS, hugo

**Tools:** Docker, Kubernetes, Git, GitHub Actions, Gitlab CI, GNU coreutils

**Cloud Platforms:** AWS (Lambda, S3, ECS/ECR, IoT Core, SageMaker ...)

**Other Skills:** SQL/NoSQL, GraphQL, Prompt Engineering, Neo4j

## Public Speaking

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**Building and Hosting a Large-Scale In-House AI Development Assistant**, TechHeads Conference September 2024

- Delivered a presentation at TechHeads Conference on September 24, 2024, sharing insights on designing, developing, and deploying a scalable AI development assistant for in-house use. Discussed technical challenges, architectural decisions.

## Projects

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**IoT Sensor Application**, Beelab – [app.beelab.se](https://app.beelab.se) Since 2022

- Worked in a team of dedicated developers to create a fullstack application hosted on AWS for beekeepers to monitor connected beehives with advanced IoT features.
- Although not directly involved, gained exposure to Grafana, which was used for real-time monitoring and visualization of hive data.

**Resource Supply System** Since 2022

- Created a system for an electrical components reseller that streamlines the workflow of buyers and sellers. Technologies used include AngularJS, Neo4j, AWS stack with CI/CD, Lambda functions, IoT Core, and SageMaker.

**RAG + Gen AI** Since 2022

- Spearheaded a Proof of Concept (POC) to establish an effective Q/A solution. Leveraged technologies like LangChain for prompt engineering, FAISS for efficient similarity search, and Chainlit for a clean frontend.

**Trello Board CSV Exporter**, Personal Project – [github.com/mattjh1/trello-csv-exporter](https://github.com/mattjh1/trello-csv-exporter) Since 2023

- Developed a Python-based tool to export Trello board data into CSV format. Script supports output to local directories or S3 and offers flexible configuration with '.env'-based API key management.

**Dotfiles Setup**, Personal Project – [github.com/mattjh1/dotfiles](https://github.com/mattjh1/dotfiles) Since 2023

- Created a robust and portable dotfiles setup using 'ansible', 'chezmoi', and 'Go templates'. Automates development environment setups with support for macOS and Linux configurations.

**AI Developer Tool** Since 2024

- I collaborated with a diverse team to develop AI-powered developer tools, focusing on a robust RAG (Retrieval-Augmented Generation) application. We integrated ETL processes, multiple data sources, and hybrid search using Elasticsearch for efficient retrieval. Additionally, we fine-tuned models for complex queries, ensuring scalability and low-latency execution.

**gRAG Pipeline and RAG Application**, Personal Project – [github.com/mattjh1/gRAG](https://github.com/mattjh1/gRAG) Since 2024

- Integrated an advanced ETL pipeline with a RAG system. The pipeline processes various text-based formats and stores it as a knowledge graph in Neo4j. Features hybrid search capabilities and a Chainlit chat application for querying.

**goETL Pipeline**, Personal Project – [github.com/mattjh1/goetl](https://github.com/mattjh1/goetl) Since 2024

- Developed a highly performant ETL pipeline in Go for RAG (Retrieval-Augmented Generation) solutions. Supports chunked text splitting, embedding models, and integrates with databases like Redis and PostgreSQL.

**Developer Platform for Global Telecom Leader** Since 2024

- Contributed to the development of an internal developer platform for a leading telecom company, built on Backstage.io. The platform streamlined developer workflows, enhancing service discoverability, documentation, and internal tooling. Focus areas included backend development, API integrations, authentication, and CI/CD automation. Ensured scalability and maintainability by leveraging Kubernetes, AWS, and microservices architecture.