

Mattias Holmgren

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Summary

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

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

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

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

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

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

IoT Sensor Application, Beelab – 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 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 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 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 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.

goETL Pipeline, Personal Project – github.com/mattjh1/goetl Since 2025

- Developed a command-line tool for batch PageSpeed Insights analysis using sitemap.xml files, built in Go with concurrent processing capabilities. Features include intelligent caching system, multiple output formats (HTML, JSON), and an interactive web server for viewing results. Implemented comprehensive CI/CD pipeline with automated builds, Docker containerization, testing, security scanning, and cross-platform releases. The tool enables performance monitoring at scale and integrates seamlessly into CI/CD workflows with configurable performance gates.