Mattias Holmgren

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Summary

Passionate, driven, and curious software engineer with a love for backend development, AI, and a deep dive into prompt engineering. Proficient in Python, Java, and Node.js, with experience in common frontend frameworks. I have a proven track record of delivering at a senior level, consistently driving impactful solutions beyond my years of experience. My focus is always on efficiency, scalability, and choosing the right tool for the job—not just following trends.

With hands-on experience in AWS, SQL/NoSQL databases, and source control management, I thrive on tackling complex problems and architecting solutions that make a real difference. My ability to deliver end-to-end, production-ready solutions has been recognized by both teams and clients, reinforcing my passion for building high-quality software.

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

Software Developer, tietoevry – Kalmar, Sweden   August 2022 – Present

- Developed full-stack applications, deployed cloud infrastructure using AWS and Kubernetes, and collaborated on AI solutions.

Web Administrator, Botkyrka Kommun – Stockholm, Sweden   July 2016 – July 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, GNU coreutils
Cloud Platforms: AWS (Lambda, S3, ECS/ECR, IoT Core, SageMaker …)
Other Skills: SQL/NoSQL, GraphQL, Prompt Engineering, Neo4j

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.

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 –   Since 2023
github.com/mattjh1/trello-csv-exporter

- 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 –   Since 2024
github.com/mattjh1/gRAG

- 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.