

Mattias Holmgren

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Summary

Passionate software engineer with a focus on backend development, AI/GenAI applications, and developer tooling. Experienced in Python, Java, Node.js, and TypeScript, with practical knowledge of modern frontend frameworks. Proven track record delivering scalable solutions using cloud infrastructure (AWS), Kubernetes, and CI/CD pipelines. Recent focus on Backstage.io plugin development, GenAI integrations, and building developer experience tools at enterprise scale.

Comfortable working across the full stack and tackling complex problems with pragmatic, well-tested solutions that teams and clients rely on.

Education

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

- Received scholarship for outstanding thesis performance, demonstrating strong academic foundation in software development principles and practices.

Certifications

KCNA: Kubernetes and Cloud Native Associate, The Linux Foundation January 31, 2025

- Foundational knowledge of Kubernetes and cloud-native technologies, including container orchestration, networking, security principles, and CNCF ecosystem understanding.
- Credly badge verification

Experience

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

- Developed AI-driven and cloud-native solutions, working directly with clients to deliver tailored applications. Recent focus includes building developer platforms on Backstage.io with AI marketplace integrations, custom plugin development, and GenAI workflow enhancements.
- Managing full-stack development, AWS infrastructure, and Kubernetes deployments across diverse project portfolios.

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

- Managed CMS for SiteVision platform while collaborating with external consulting partners to implement agile methodologies.

Skills

Programming Languages: Python, Java, TypeScript (Node.js), Go, Bash

Frameworks: FastAPI, Spring Boot, Next.js, NestJS, LangChain, Backstage.io, React.js, AngularJS

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, AI/GenAI Integration, Neo4j, Prompt Engineering

Public Speaking

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

- Shared insights on designing, developing, and deploying a scalable AI development assistant for enterprise use, discussing technical challenges and architectural decisions.

Projects

AI-Powered Developer Platform for Global Telecom Since 2024

- Built AI marketplace integration within Backstage.io platform serving thousands of developers. Developed custom plugins including subscription management, developer feedback collection, AI service discovery, and AI governance/compliance systems.
- Implemented plugin templates for workflow standardization and integrated GenAI capabilities into developer workflows using TypeScript, Node.js, and modern web technologies.

gRAG Pipeline and RAG Application, Personal Project – Since 2024 github.com/mattjh1/gRAG

- Advanced ETL pipeline with RAG system integration. Processes text-based formats and stores data as knowledge graph in Neo4j. Features hybrid search combining vector embeddings with structured queries, FastAPI interface, and Chainlit chat application.

goETL Pipeline, Personal Project – github.com/mattjh1/goetl Since 2024

- High-performance ETL pipeline written in Go for RAG solutions. Supports chunked text processing, embedding model integration, and multiple database backends (Redis, PostgreSQL). Designed for concurrent data handling and scalable RAG implementations.

PSI-Map - PageSpeed Insights Analyzer, Personal Project – Since 2025 github.com/mattjh1/psi-map

- Command-line tool for batch PageSpeed Insights analysis using sitemap.xml files. Built in Go with concurrent processing, intelligent caching, multiple output formats, and comprehensive CI/CD pipeline with automated builds and cross-platform releases.

IoT Sensor Application, Beelab – app.beelab.se Since 2022

- Team collaboration on fullstack IoT application for beekeepers to monitor connected beehives. AWS-hosted solution with advanced IoT features and real-time monitoring capabilities.

Resource Supply System Since 2022

- Streamlined workflow system for electrical components reseller using AngularJS, Neo4j, and AWS stack. Includes CI/CD pipelines, Lambda functions, IoT Core, and SageMaker integrations.

AI Developer Tool Since 2024

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

RAG + GenAI Proof of Concept Since 2022

- Q/A solution integrating large documentation datasets using LangChain for prompt engineering, FAISS for similarity search, and Chainlit for frontend interface.

Dotfiles Setup, Personal Project – github.com/mattjh1/dotfiles Since 2023

- Automated development environment setup using Ansible, chezmoi, and Go templates. Supports macOS and Linux with 1Password integration for secure credential management.