

Mattias Holmgren

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Summary

Passionate software engineer with a focus on backend development, full-stack development, AI/GenAI applications, and developer tooling. Experienced in Python, Java, Node.js, and TypeScript, with practical knowledge of modern frontend frameworks including React and Angular.

Proven track record delivering scalable solutions using cloud infrastructure (AWS), microservices architecture, Kubernetes, Docker, 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

Software Engineer | Solution Consultant, tietoevry – Kalmar, Sweden

August 2022 – Present

- Software engineer developing AI-driven and cloud-native solutions, working directly with clients to deliver tailored applications using Agile methodologies. Recent focus includes building developer platforms on Backstage.io with AI marketplace integrations, custom plugin development, REST API development, and GenAI workflow enhancements.
- Managing full-stack development, AWS cloud infrastructure, Kubernetes deployments, Docker containerization, CI/CD pipelines, and DevOps practices across diverse project portfolios. Built scalable microservices architecture serving thousands of developers.

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 and SCRUM practices. Gained foundational experience in web development, stakeholder management, and iterative development processes.

Skills

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

Backend Frameworks: FastAPI, Flask, Spring Boot, Spring Framework, NestJS, Express.js

Frontend Frameworks: React.js, Next.js, AngularJS, HTML5, CSS3

AI/ML Technologies: LangChain, GenAI Integration, Machine Learning, LLM Integration, Prompt Engineering

Developer Platforms: Backstage.io, Plugin Development

Cloud DevOps: AWS (EC2, Lambda, S3, ECS, ECR, IoT Core, SageMaker), Docker, Kubernetes, CI/CD Pipelines

Database Technologies: PostgreSQL, MongoDB, Redis, Neo4j, SQL, NoSQL

Tools Practices: Git, GitHub Actions, GitLab CI, REST APIs, GraphQL, Unit/Integration Testing, Microservices, Agile, SCRUM

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

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

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

Since 2024

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

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

Since 2024

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

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

Since 2025

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

IoT Sensor Application

Since 2022

- Team collaboration on full-stack IoT web application for beekeepers to monitor connected beehives. AWS-hosted solution with advanced IoT features, real-time monitoring capabilities, REST APIs, and cloud-native architecture using microservices.

Resource Supply System

Since 2022

- Full-stack web application and workflow system for electrical components reseller using AngularJS, Neo4j database, and AWS cloud services. Includes CI/CD pipelines, Lambda functions, REST APIs, IoT Core, and SageMaker integrations with microservices architecture and Docker containerization.

AI Developer Tool

Since 2024

- Collaborated with cross-functional team to develop AI-powered developer tools using Agile methodologies, focusing on robust RAG (Retrieval-Augmented Generation) application. Integrated ETL processes, multiple data sources, and hybrid search using Elasticsearch for efficient retrieval. Fine-tuned machine learning 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, Python backend, 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 with DevOps practices. Supports macOS and Linux with 1Password integration for secure credential management. Single-command environment recreation for rapid system adaptation and developer productivity.