

# Mattias Holmgren

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## Summary

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Full-stack software engineer building cloud-native applications and developer platforms with Python, TypeScript, React, and AWS/Kubernetes. Recently delivered an enterprise Backstage.io platform with GenAI integrations, adopted across engineering teams and streamlining onboarding and workflow automation. Alongside professional work, I build high-performance Go tools and AI/ETL pipelines, and I'm eager to bring that expertise into larger-scale backend and developer tooling roles.

## Education

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

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

## Certifications

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

- Validates knowledge of Kubernetes, container orchestration, cloud-native networking, security principles, and CNCF ecosystem.
- Credly badge verification

## Experience

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**Software Engineer | Solution Consultant**, tietoevry – Kalmar, Sweden August 2022 – Present

- Designed and deployed an AI-enabled developer platform on Backstage.io, adopted by thousands of engineers, improving onboarding time from weeks to days.
- Built custom plugins for AI service discovery, governance/compliance, and feedback collection using Node.js/TypeScript; increased self-service adoption across engineering teams.
- Integrated GenAI workflows into enterprise apps, reducing manual support lookups and speeding up resolution times.
- Scaled AWS/Kubernetes microservices for high-volume workloads; also implemented serverless automation in Go for specific tasks.
- Optimized CI/CD pipelines (GitHub Actions, GitLab CI), cutting build and deployment times by more than half.
- Collaborated directly with enterprise clients to deliver tailored cloud-native solutions using Agile practices.

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

- Managed CMS for SiteVision platform in collaboration with external partners.
- Gained early experience in agile practices, stakeholder management, and iterative delivery.

## Skills

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**Core Backend:** Python (FastAPI, Flask), Java (Spring Boot), TypeScript/Node.js (NestJS, Express.js), Go (personal projects + serverless functions). REST/GraphQL APIs, microservices, system design.

**AI & GenAI:** RAG systems, LangChain, LLM integration, prompt engineering, GenAI workflow automation, hybrid search solutions.

**Cloud & DevOps:** AWS (ECS, Lambda, IoT Core, SageMaker), Kubernetes, Docker, CI/CD pipelines, GitHub Actions, GitLab CI, infrastructure as code.

**Developer Platforms:** Backstage.io plugin development (AI integration, subscription mgmt, governance/compliance), workflow standardization, developer experience.

**Databases:** PostgreSQL, MongoDB, Redis, Neo4j. Schema design, query optimization, integration with microservices.

**Soft Skills:** Problem Solving, Collaboration, Adaptability.

## Languages

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Swedish (Native), English (Professional Fluency).

## Projects

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**AI-Powered Developer Platform** 2024 –

- Enterprise Backstage.io platform with AI integrations and custom plugins (subscription mgmt, feedback collection, governance). Improved developer workflows with GenAI-enhanced automation.

**gRAG Pipeline** – [github.com/mattjh1/gRAG](https://github.com/mattjh1/gRAG) 2024 –

- ETL + RAG pipeline using FastAPI and Neo4j. Hybrid search (vector + structured queries) and Chainlit chat interface.

**goETL** – [github.com/mattjh1/goetl](https://github.com/mattjh1/goetl) 2024 –

- High-performance ETL pipeline in Go. Concurrent data processing, embedding model integration, multi-database support.

**PSI-Map - PageSpeed Insights Analyzer** – [github.com/mattjh1/psi-map](https://github.com/mattjh1/psi-map) 2025 –

- CLI tool for batch PageSpeed Insights analysis in Go. Features caching, concurrent processing, multi-format output, CI/CD automation.