Christopher Yamba

Agentic AI Engineer & Architect · YambaCode AB

`// agentic systems · MCP · multi-agent orchestration · RAG with citations · evals`

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GitHub · Medium · Company

`CV V-04 · git 8bf9c66`

~18 yrs distributed systems | 5 MCP servers | 2 live agentic products | B.Sc. Mathematics | Stockholm · remote

PROFILE

Senior AI engineer who builds agentic systems that hold up in production: MCP servers, multi-agent orchestration, retrieval with citations, and evaluation for safe prompt and model rollouts. ~18 years of backend and distributed systems in banking (SEB, SBAB), Spotify search, e-health (Inera) and the public sector, plus a B.Sc. in Mathematics. Founder of YambaCode AB, where I ship my own agentic products (DNA2C, NutriAIQ) and five MCP servers.

WHAT I BUILD

MCP & tool platforms
Five MCP servers (up to 36 tools) used from Claude and ChatGPT; one tool contract served by Python, Go and Spring Boot adapters over gRPC.

Multi-agent systems
Router → specialist-agent architectures with tool calls and citations; replayable agent loops as validated state machines; SSE streaming.

Evals & reliability
Evaluation and A/B strategies for prompt/model rollouts, cross-provider LLM benchmarking, and open-source guardrails against eval leakage.

SELECTED AGENTIC WORK · YAMBACODE AB

DNA2C — LIVE PRODUCT
Privacy-first genomics assistant: router → 7 specialist agents, tool calls to PubMed/ClinVar, cited answers, 4 LLM providers incl. local Ollama, local voice.

NutriAIQ — LIVE PRODUCT
Agentic analyst over the Swedish food database (~2,600 foods, sv/en): orchestrator + tools + SSE, cited answers, inline charts, its own MCP server.

MCP servers — 5 SERVERS
36-tool score-transcription server (stdio + streamable HTTP); PCR primer design as 7 tools (Primer3, BLAST+, NCBI); MCP over food and health data.

ouroboros-guard — OPEN SOURCE
Guardrails for agentic science: Claude Code hooks, time-firewalled RAG, hash-chained provenance, commit–reveal, negative controls.

WRITING

The Ouroboros Problem · christopheryamba.com, 2026

Parikh Matrices and Permutation Statistics (B.Sc. thesis) · Stockholm University, Mathematics, 2006

LANGUAGES

Swedish (Native) · English (Fluent)

SKILLS

Agentic AI
MCP servers, multi-agent orchestration, Google ADK, RAG / Adaptive RAG, evals & A/B rollouts, context & prompt engineering, Claude Code, LiteLLM

Models & ML
Claude, Gemini, OpenAI, Llama, PyTorch, TensorFlow, scikit-learn, Transformers, LoRA, Vertex AI, Hugging Face

Languages
Python, Go, TypeScript, Java, Kotlin, Scala, C#

Platform
Kubernetes, OpenShift, Docker, Helm, Terraform, GCP, Azure, AWS, Kafka, Elasticsearch, PostgreSQL, CI/CD

Science
combinatorics, probability & statistics, bioinformatics, BioPython, RNA structure prediction

EDUCATION

B.Sc. (Fil.kand.), Mathematics
Stockholm University 2006

Courses, Computer and Systems Science (courses)
KTH Royal Institute of Technology / Stockholm University 2007

CERTIFICATES

Deep Learning (4 courses) · DeepLearning.AI

Math for ML ×2 · DeepLearning.AI

Genomic Data Science (2 courses) · Johns Hopkins

EXPERIENCE

`Aug 2026 – present` **Senior AI Engineer** · fintech

`Aug 2026 – present` **Principal AI Engineer — Agentic AI Drug Discovery Engine** · D-Age BioScience

- Architecture and engineering of an agentic AI engine for drug discovery.

Jan 2026 – Jul 2026

Senior AI Engineer — AI team (agentic platform) · Simployer · via YambaCode AB (consulting)

- Designed and built MCP servers and agentic AI services behind a multi-agent HR/compliance assistant (orchestration, RAG, admin tooling).
- R&D on AI reliability, Adaptive RAG, multi-agent orchestration patterns and cross-provider LLM benchmarking, incl. a multi-agent psychometrics benchmarking prototype.
- Built and ran build/release pipelines for AI services across dev, QA and prod, with agentic workflows driven by Claude Code.
- Introduced evaluation and A/B strategies for safe prompt and model rollouts; context- and prompt-engineering practices.

Apr 2025 – Sep 2025

AI Developer / Architect · Frontwalker Group AB (client Region Uppsala)

- Built an LLM-based speech-recognition solution for Region Uppsala's referral (remiss) handling; delivered to production and maintained by Frontwalker.
- AI expert in Life Science × AI workshops and conferences at STUNS.
- Internal GenAI, RAG, agent-architecture and MLOps prototypes.

Nov 2024 – Mar 2025

Senior Backend Developer (app team) · SBAB Bank

- KYC flows and transfers in domain-driven microservices (WebFlux, Kafka, GitLab CI); feature toggles across iOS/Android app versions.

Feb 2023 – Mar 2024

Senior Software Engineer · SEB Embedded (Banking-as-a-Service)

- Led development and architecture of payment services on a GCP microservice platform; migrated legacy services to API-first.
- Integrated external payment systems including Swish; GDPR-safe metadata handling.
- Algorithms for bank-day and account-number validation; observability with Grafana/Prometheus; GitOps (Helm/Kustomize), Terraform.

Feb 2016 – present

Founder · AI engineering & products (alongside employment) · YambaCode AB

- Own company: consulting delivery plus own agentic products and R&D (see Selected agentic work).
- Earlier R&D: deep learning for RNA secondary-structure prediction (CNN, RNN, Transformer).

Feb 2022 – Jun 2022

Senior Backend Developer · Mestro AB

- Energy-analytics portal; monolith → microservices, Java 8 → 18; Elasticsearch search; RabbitMQ.
- Built a test framework and test-data generators; mentored junior developers.

Nov 2019 – Mar 2020

Senior Backend Developer (Search) · Spotify

- Search microservices and API; migrated and automated data pipelines; ranking integrated with ML/analytics (GCP, Scala, Java, Protobuf, Elasticsearch).

Oct 2018 – Aug 2019

Java Developer · AB Trav och Galopp (ATG)

Event-driven, real-time responsible-gaming services (Solace, OpenShift); GDPR features; Kambi sports-data integration.

Feb 2018 – Oct 2018

Backend Developer · MedMera Bank (Coop)

Core-banking microservices: KYC for loan applications, Drools rules, UC credit checks, BankID / Mobile BankID, Kafka.

Jan 2017 – Jan 2018

Backend Developer (Club / loyalty) · H&M

Club-member middleware (onboarding, points, purchases) and multi-timezone inventory; non-blocking Java; performance troubleshooting (Dynatrace, JFR, Splunk).

Jan 2016 – Dec 2016

Game Server Developer · NetEnt

Lead backend developer on 5 video-slot games shipped to production; RTP/payout simulations for EU certification; shared game-tooling libraries.

Nov 2014 – Jan 2016

Backend Developer · Dagens Nyheter (Bonnier News)

Built the backend of DN Trend — phrase-trend analysis across every DN article since 1864 (Elasticsearch, Groovy, Spark).

Nov 2012 – Aug 2014

Systems Developer · Pensionsmyndigheten (Swedish Pensions Agency)

Case-management workflow engine; Java DSL replacing database-stored flow logic; telephony integration (JMS).

2008 – 2012

Mobiento 2012; So4IT 2011; Inera AB 2010; KTH 2009; Mälardalen University 2008