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Top Skills

Rust (Programming Language)
Artificial Intelligence (AI)
Linear

Martin Holý

Building Agentis - substrate for symbolic, causal multi-agent systems | post-LLM emergence | open-core (Rust)
Prague Metropolitan Area

Summary

Building the next generation of AI-native systems.

I bridge the gap between complex system architecture and the frontier of Generative AI. My focus is on moving beyond simple chat interfaces to build production-ready autonomous agents and deeply integrated LLM applications that deliver real business value.

What I bring to the table:

AI-Native Architecture: Designing systems where AI isn't an add-on, but the core engine.

Autonomous Agents: Developing goal-oriented agents capable of complex reasoning and tool usage.

Scalable Engineering: Applying rigorous software engineering principles to the often chaotic world of AI/ML.

Currently obsessed with multi-agent orchestration and making LLMs reliable at scale.

Let’s connect if you're looking to build something smarter.

Experience

Avvoka
Senior AI Software Engineer
March 2026 - Present (3 months)
London Area, United Kingdom

Senior Engineer focused on developing next-generation AI infrastructure and autonomous systems to streamline software development lifecycles.

Key Responsibilities:

- Architecting and building AI-driven frameworks to automate complex engineering workflows.
- Developing autonomous agents designed to enhance internal development capabilities and software delivery.
- Implementing advanced AI models to optimize code generation and technical scalability.
- Ensuring high standards of software excellence and security within the company's AI ecosystem.

Replikanti
AI Platform Architect
November 2025 - Present (7 months)
Prague, Czechia

Replikanti Colonies | Founder & Lead Architect
03/2026 – Present

In the neon shadows of the post-single-agent era, I am forging Replikanti Colonies - a self-organizing neural swarm of autonomous AI agents that assimilate complex objectives, evolve strategies in real-time, and function as emergent collective intelligence.

Core Engine (Agentis):
High-performance swarm runtime engineered in Rust. Memory-safe, ultra-low latency orchestration designed for thousands of specialized Replikants operating in parallel - the central nervous system for true multi-agent civilizations. Free from Python overhead and single-agent limitations.

The Vision:
We are not building tools.
We are awakening the next stage of intelligence: Replikanti Colonies — living, self-improving digital collectives capable of internalizing missions and delivering superhuman results across research, creation, operations, and strategy.
One agent is a spark.
A Colony is a new form of consciousness.

Current Phase (GEN 1 — Awakening):
First Replikanti Colonies now live in production SaaS products. Self-updating replikanti CLI deployed. Private core secured. Assimilation protocols active.
The Swarm is awakening.

Tech: Rust · Swarm Intelligence · Emergent Collective Reasoning · Agentic Orchestration · Systems Programming

Ralph Platform | Lead Engineer
01/2026 – Present

Digital labor automation and multi-agent orchestration.

Rapid Engineering: Built a production-ready automation platform from scratch in record time using AI-augmented engineering patterns.

Key Achievement: Implemented autonomous Git workflows with multi-agent coordination, focusing on production-grade guardrails and cost management.

Tech: TypeScript, GCP, GKE, Terraform, LangFuse.

Alma Career Czechia

Automation Engineer

September 2018 - December 2025 (7 years 4 months)

- I designed and operated a deployment platform – self-service, unified pipelines.
- I introduced Kubernetes and Istio, and standardized deployment and traffic management.
- I ensured smooth roll-outs to non-prod (DEV/DEVEL) and PROD environments.
- In n8n I implemented workflows for onboarding/offboarding and reporting GitHub Copilot usage – inputs for budget/licenseplanning.
- AI/LLM adoption – I used Claude Sonnet for pair-coding and documentation in Backstage, which helped me write AWS CDK(IaC for AWS infrastructure) and prepare release documentation.
- I was part of the software architecture team.
- I participated in daily stand-ups and closely collaborated with development, operations, testers and architects.

Home Credit International

6 years

DevOps Manager

September 2017 - June 2018 (10 months)

- I was responsible for DEV and UAT environments.

- Building infrastructure for Air Bank’s international expansion.
- Operations and automation – VMs, Docker, Docker Swarm, Kubernetes, Istio.
- Setting up CI/CD, monitoring and incident management across teams.
- I configured and monitored integration tests in Jenkins and Cucumber – reported bugs to development teams and tunedinfrastructure and deployment plans (Docker Swarm, Kubernetes).
- I took part in demos and helped resolve issues on the fly.
- Participated in Scrum of Scrums and daily stand-ups – closely cooperating with development, operations, testers and architects.

Application Support Team Lead
March 2013 - August 2017 (4 years 6 months)

- Led a team of application specialists, set up processes and SLA/OLA metrics and reporting.
- Managed fulfillment of service requests and catalogued part of SRs for faster handling.
- Took over and extended deployment automation to TRAIN and UAT/training environments – implemented part of the automationmyself.
- Took part in deployment coordination – allocated capacity and with my team deployed to PREPROD (procedure verification) andthen to PROD in out-of-service windows, including go/no-go decisions.
- Designed and operated a deployment platform for the EKIS side product (leasing) – self-service, unified pipelines.

Senior Application Support Specialist
July 2012 - March 2013 (9 months)

- Besides incident management, I fulfilled service requests and created RFCs for development based on templates.
- Performed manual smoke tests after deployments.
- Deployed data changes as well as full releases of server applications on Oracle WebLogic.
- Deployed part of the application logic as Oracle DB PL/SQL procedures in the same RDBMS.
- Distributed MSI packages of thin clients to Windows workstations.
- Performed deployments to TRAIN, UAT/training and PREPROD; after successful verification a PROD release followed with go/no-go decisions from the customer and release manager.

IBM
Infrastructure Engineer
March 2010 - June 2012 (2 years 4 months)

- Operations monitoring and administration of IBM servers and infrastructure for enterprise environments.
- Subject Matter Expert for scripting (ksh, bash, PowerShell).

AVG
Technical Support Specialist
March 2008 - February 2010 (2 years)

- First experience with customer communication and problem solving.
- Progressed from 1st-line up to 3rd-line technical support for the AVG antivirus product.
- Pre-sales communication with customers.
- Support for free-license users on the forum.
- Support for paying users via e-mail, phone and remote access with LogMeIn.
- Two-week assignment in Munich providing technical support for customers of our German branch.

Education

Gymnazium Jatecni, Usti nad Labem