Raffael Prem

Frontend team lead · AI engineer · Software architect

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SUMMARY

I lead frontend engineering at AGILOX in Linz and build its AI agent. On my own I make products and take on commissions. I have shipped production software for six years, lately mostly with agents: in the code, in the product, and in how a team works.

FEATURED PROJECTS

OpenFolia

Open source (AGPL-3.0) · 11.2026

The documentation system I wanted to buy. Manufacturers write their operating manuals once, as small modules in plain AsciiDoc files in a Git repository they own. OpenFolia builds a correct manual for every product variant and every language (PDF/UA, HTML and iiRDS), with typed variant rules that block a release before a wrong safety notice ships. Headless from the first commit: one JSON:API, an Angular editor on ProseMirror, and an MCP server for AI assistants.

agentest

Open source · TypeScript · 03.2026

A testing and evaluation framework for AI agents, published as @agentesting/agentest. Simulated users talk to your agent, tool calls run against mocks, and an LLM judge scores every turn. A CLI you run with npx, with Vitest integration, watch mode, CI reporters and side-by-side model comparison. Works with LangChain, the Vercel AI SDK, the Anthropic SDK, CrewAI or any OpenAI-compatible endpoint.

EXPERIENCE

AGILOX Services GmbH, Linz

09.2023 · now

Team lead, frontend engineering

04.2026 · now

I lead three developers who own every AGILOX frontend: the analytics platform for the robot fleet, the learning platform, and internal tools that connect to vehicles remotely and replay what they did. I brought Claude Code to my team first, then to the whole company, with workshops on setup, skills and review rules, and isolation for proprietary code so it could roll out safely. Since then my team ships more than twice as much, with half the share of bugs. Every change still gets a human review, and the juniors learn what the code does, not only how to ask for it.

AI engineer

10.2025 · now

I lead the AGILOX AI agent: operators ask about vehicles, orders and performance in plain language instead of SQL or dashboards. It is in beta with customers. It runs on LangChain and MCP with open models. The hard part was accuracy on large fleet datasets with models that are not frontier: a semantic layer and evaluations keep the answers right and the hallucinations down. Testing it is where agentest started.

Software architect, frontend

04.2025 · now

I own the frontend architecture across the cloud products. I brought in JSON:API across the whole repo and replaced the in-house login with Microsoft Entra ID, and I mentor the developers around me.

Cloud frontend engineer

09.2023 · 04.2025

I shipped features across the cloud frontend in an Nx and Angular monorepo, and rebuilt the vehicle replay in 3D, which made it much faster in the browser.

My own business, Linz

11.2024 · now

> **Products and commissions**
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> I build my own products: OpenFolia, an open-source documentation platform for manufacturers; Freit, an AI transport office where a person makes every call; and agentest. Next to them I take on a few commissions a year: product prototypes, landing pages, and help with AI and robotics projects. This site is the shop window.

mgm Software Team GmbH

07.2020 · 07.2023

> **Software engineer**
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> Three years of enterprise delivery: full-stack features, code review and production troubleshooting across customer-facing and internal systems.

SKILLS

Languages	TypeScript, JavaScript, Python, HTML and CSS
Frontend	Angular, Nx, Next.js, React, ProseMirror, Tailwind, Vitest, Jest, Cypress, Playwright
AI and agents	LangChain, Vercel AI SDK, Anthropic SDK, MCP, semantic layers, evaluations and LLM-as-judge, open models (Ollama, LM Studio)
Backend and infra	Node.js, NestJS, PostgreSQL, Prisma, JSON:API, Microsoft Entra ID, CI/CD, Hetzner
Practices	Frontend architecture, technical leadership, agentic development with Claude Code
Spoken	German and English, both native

EDUCATION

Computer science · University of Innsbruck — 2018 · 2022

Computer science, exchange year · University of New Orleans — 2019 · 2020