

# Mark Mandryk

## Senior Tech Lead — Backend & AI/Agent Systems

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### SUMMARY

Senior backend engineer & tech lead (9+ yrs, PHP/Laravel/PostgreSQL) now leading AI/agent work: RAG, custom MCP servers, multi-agent orchestration. Architecture lead on 5-15 client MVPs/year. Runs a self-hosted stack (VPS, 51 skills, 56-agent config) as an ongoing engineering practice.

### AI ENGAGEMENTS

**RAG adaptive-learning platform — Lead** (*5-person team, Norwegian EdTech, Late 2024*). Per-student knowledge map + curriculum replanning; RAG + OpenAI embeddings over MongoDB vector store, LangChain; early prompt-orchestration layer (precursor to skills) + metadata-filtered retrieval; 1,000-10,000 students, strong weekly retention.

**Internal AI agent for a law firm — Lead** (*3-person team, Israel, Early 2025*). Continuous document ingestion/cataloging/indexing with background processing; cut search from days to minutes; encrypted APIs.

**31-module LLM editorial-QA pass** across two production courses — LLM as primary QA/rewrite engine, findings tracked across 4 structured docs.

### CORE AI/AGENT SKILLS

Claude API, MCP (built servers from scratch: slicing, CDN, SSH/deploy), LangChain, RAG, multi-agent orchestration, prompt engineering — plus 30+ AI-collaborative shipped tools (earForge, Voxelizer, Synth-City, TextToVox, and more) across Claude Code, Gemini, Google AI Studio, Replit.

### BACKEND & INFRASTRUCTURE

**Senior Backend Developer / Tech Lead — Webcoder, Kharkiv** — *since 2020 (Senior since 2023; in software since 2016)*. PHP 8.4, Laravel, PostgreSQL · FusionPBX (VoIP) admin · self-hosted DevOps (Hetzner, nginx, pm2, systemd). Earlier (NDA-heavy): GigaTaxi, Foodtolive, blockchain trading, GreatStarter, food-delivery platforms, early ChatGPT API (2023).

### SKILLS

PHP 8.4, Laravel, PostgreSQL, MySQL, MongoDB, Node.js, Python, C++/MicroPython, Linux, Docker, git.