

Emily Vlasiuk

Senior AI Engineer & Technical Lead

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Book a call: calendar.app.google/NXtfp7Ddiq2NWLvF6

SUMMARY

Senior AI engineer and technical lead — 10+ years in software engineering, from .NET enterprise platforms to production agentic AI systems in Python. Core architect of a commercial multi-agent backend on AWS — LangGraph / LangChain orchestration, RAG pipelines, MCP tool integrations — designed for hundreds of concurrent users. Previously Technical Lead on a federated-learning healthcare platform and enterprise release manager across all Toyota Motor Europe tenants. Daily AI-assisted development on Claude Code and Raven, an agentic platform of own design; owns delivery end to end — architecture, stakeholders, release.

SKILLS

AI Engineering	Agentic AI, Multi-Agent Orchestration, LangGraph, LangChain, RAG, MCP, LLM Integration, Tool Calling, Vector Search, Prompt & Context Engineering, Structured Outputs (Pydantic), LLM Observability, Human-in-the-Loop, Federated Learning
Backend	Python, FastAPI, REST API, C# / .NET, ASP.NET Core, PostgreSQL, SQL Server, MongoDB, Redis, RabbitMQ, Kafka, Stripe, Event-Driven Architecture
Frontend	React, Next.js, TypeScript, Redux, HTML5, CSS3, Tailwind CSS, UI/UX Design, Accessibility
Cloud & DevOps	AWS (production agentic workloads), Docker, CI/CD, Azure DevOps, Release Management, Grafana, Loki, Jaeger, Distributed Tracing
Practices	AI-Assisted Development (Claude Code, Raven — own platform), Clean Architecture, Domain-Driven Design, CQRS, TDD, Code Review, Mentoring, Stakeholder Communication, Agile / Scrum

FEATURED PROJECT

Commercial Agentic AI Backend — Core Senior Architect

Production · under NDA

- Architected a production multi-agent system on AWS — core orchestrator, team-lead and worker agents, logical supervision, self-recovery, automated planning; parallelized LLM calls and tool orchestration, designed for hundreds of concurrent users
- Implemented MCP servers — migrated existing servers across languages, built custom tools and bundled them into MCP; published the agentic backend into a scalable AWS cluster
- Orchestrated agents via LangGraph / LangChain and custom layers — intent detection, supervisor routing, consistent handoff contracts; least-privilege tool scoping per agent; structured LLM outputs via Pydantic across agent boundaries
- Built RAG-backed memory and ingestion pipelines — source discovery, chunking, embedding, vector storage; grounded responses with evidence citations
- Instrumented end-to-end agent traceability — append-only trace journals, per-agent status heartbeats; durable human-in-the-loop interrupt / resume on checkpointed state

PROFESSIONAL EXPERIENCE

Creator & AI Systems Architect — Raven KindSolutions (own venture)

Jun 2024 — Present

- Built Raven, an agentic fleet orchestration platform running 24/7 on real client work — ticket analysis, implementation fleets, PR review pipelines — built because no market tool handled multi-project async orchestration with a 24/7 fleet and persistent memory
- Designed custom multi-agent orchestration: persistent lead / worker agent topology, spawn-policy governance, self-healing fleet supervision, headless stateless agents — vendor-portable by design (any CLI, any LLM per agent)
- Built RAG and persistent-memory layer giving agents durable cross-session context; append-only event spine (SQLite + FastAPI read API) so fleet state is re-derivable from evidence

Freelance Software Engineer 42 Coffee Cups · Remote

Feb 2026 — Present

- Maintain and extend a large legacy Python platform (Docker) as an external contractor, running an AI-agent-assisted workflow (Claude-based multi-agent tooling) across ticket analysis, implementation, and PR review

- Led architecture and development of PRIME CARE, a federated-learning medical research platform — end-to-end creation of backend services (Python, FastAPI, .NET Core), RESTful API, and web application
- Designed the platform around ML workloads — image recognition, feature extraction, clustering — collaborating with PhD researchers and university professors; model tuning owned by the research team
- Applied Clean Architecture, CQRS, DDD; RabbitMQ event-driven architecture; full observability stack (Grafana, Loki, Promtail, Jaeger); managed database lifecycle from local setup to cloud migration
- Key technical point of contact — led technical meetings, set priorities, coordinated releases; enforced security best practices in code review and compliant handling of sensitive medical data

- Single-handedly designed and built a .NET MAUI cross-platform app from scratch — secured a long-term Dutch enterprise client
- Company AI ambassador — introduced AI tools company-wide; automated localization of a 1,000+ key application with an LLM pipeline, replacing manual per-key translation
- Delivered complex solutions with Kafka, .NET Core, React + TypeScript, Cypress E2E; architected CI/CD pipelines (Azure DevOps); selected technical tooling and mentored team members

- Developed Toyota Motor Europe's core internal software product (.NET Core, React, Azure) in an international, multilingual agile environment; built internal libraries and frameworks adopted across teams
- Promoted to the core DevOps team — managed enterprise releases across all European Toyota tenants, coordinating development, testing, operations, and business teams

- Taught full-stack lectures (C#, ASP.NET, JavaScript) to classes of 150 while still a student — 300+ students total; diploma for outstanding delivery

- Critical emergency-services software (Police, Ambulance) on an EU-financed project — hired mid-level before graduation (.NET Core, PostgreSQL)

- Independently found and fixed a critical financial rounding error (C# decimal) in an accounting tool

OPEN SOURCE & SELECTED ACHIEVEMENTS

VoiceMode — open-source voice MCP server

Upstream contributor

- Authored Whisper vocabulary-biasing feature (VOICEMODE_STT_PROMPT) — merged Feb 2026, test-covered, part of the documented public configuration: github.com/mbailey/voicemode/pull/234
- Initiated native Windows support: root-cause diagnosis (issue #232) and first implementation (PR #233), credited in the shipping PR
- Top .NET MAUI custom GPT by conversation count — 10K+ conversations, 4.1★ from 100+ ratings (launched 2023, weeks after custom GPTs debuted)
- Speaker at an IT security conference (2022); mentored 300+ students and 20+ junior developers

EDUCATION & CERTIFICATIONS

Final grade: good plus (4.5 on the 2.0–5.5 scale) · Engineering thesis — a CMS for a student research club — graded very good (5.0) · 210 ECTS

C# + MSSQL Course Certificate (2017) · Diploma for Lectures and Laboratories Delivery, PWr (2018)

LANGUAGES

English — Fluent (B2/C1) · Polish — Fluent (B2/C1) · Ukrainian — Native · Russian — Native