CURRICULUM VITAE

Mykola Palamarchuk

Staff / Principal Software Engineer · AI, ML, Data Engineering

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Summary

Software engineer with 20+ years of experience in data engineering, software architecture, and AI/ML integration. Programming is my passion, so I keep learning and use cutting-edge technologies and development practices in real work. Right now I'm focused on AI agents, especially on making their output more reliable (which includes SDLC and spec-driven development with coding agents, guardrails, evaluation, observability, cost optimization). I've also led small teams and mentored engineers.

Key competencies

Data Engineering

Data Lake Architecture, SQL/NoSQL, Database Optimization, Data Warehousing

AI & ML

Generative AI, Agentic AI, LLM, Machine Learning, PyTorch

Cloud & DevOps

Microservice Architecture, Service Mesh, AWS, Kubernetes, Docker

Observability

OpenTelemetry, Prometheus, Grafana, Langfuse

Development

Full SDLC Management, CI/CD Pipeline Optimization, Git Workflow Design, Agentic SDLC

Programming Languages

Python (primary); production experience in other languages, including PHP, Java, C#, and Ruby; currently learning Rust and Lean 4

Methodologies

Agile Implementation, Scrum/Kanban Facilitation, Cross-functional Collaboration

Experience

airSlate

Senior Software Engineer — Apr 2025 – Sep 2026

- Introduced AI tooling across the company as one of a team of experts (tools, frameworks, observability, knowledge sharing, SDLC for coding agents).
- Developed AI product feature discovery service and knowledge base (Python, LlamaIndex, Dagster, PostgreSQL).
- Developed full-cycle website generation service based on AI workflows (Python, LangChain).

Upwork

Lead Data Engineer Oct 2022 – Jan 2025

- Designed and implemented an ETL system from scratch (Python, Dagster, PostgreSQL, Snowflake, Kubernetes, Data Lake).
- Created various analytics and observability dashboards (Grafana, Kibana, Redash, Retool, Superset, Snowflake).
- Created a source-code-based Grafana CI/CD pipeline (Grizzly).
- Developed a prototype of an AI assistant for SRE (LlamaIndex, OpenAI, RAG, Agentic AI).
- Led the team to deliver company goals.

Senior Software Engineer Apr 2014 – Oct 2022

- Migrated the website from Zend Framework to Symfony with the team (PHP).
- Developed core components to support service mesh infrastructure (PHP, Observability).
- Initiated and led internal initiatives for architectural improvements (PHP, JS, Java).
- Developed specialized services for service mesh infrastructure (Java, Python, DevOps, Kubernetes, AWS).

Noosphere Ventures

Senior Software Engineer Apr 2013 – Jan 2014

- Developed a resilient and efficient data collection framework (PHP, MySQL).
- Led a small team to support the project.
- Optimized SQL queries to improve web portal performance.

INTERSOG

Software Engineer Nov 2012 – Feb 2013

- Designed and implemented an in-place website i18n tool (PHP, JS).
- Led a small team to support the project.

BeGrouped

Senior Software Engineer May 2010 – Jan 2012

- Designed and developed an SMS-based social network (PHP, Symfony).

Reklamaport

Senior Software Engineer Feb 2009 – Jan 2010

- Developed a web portal marketplace with the team (PHP, Symfony).
- Created a platform to collect data for the portal (PHP, MySQL).
- Migrated the portal to Ruby on Rails with the team.

Trustename Inc

Software Engineer Jul 2008 – Jan 2009

- Improved existing data analytics platform performance (OLAP, PHP).
- Took part in development of a high-load ads distribution platform (PHP).
- Migrated the existing administration portal from PHP to Java/GWT.

ISSystems

Software Engineer Jan 2006 – Dec 2007

- Developed websites from scratch (PHP, JS).
- Developed CRMs and analytics platforms (SQL, OLAP).
- Worked with clients to define technical tasks.

Education

Taras Shevchenko National University of Kyiv

2003 – 2009

Master of Computer Science

Languages

Ukrainian — native

English — advanced / fluent