

Yurii Kovalenko

Full-Stack Engineer • Data Engineer • AI / LLM Engineer

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PROFESSIONAL SUMMARY

Full-stack engineer with **5+ years** of production LAMP / WordPress experience (2021–2026), shipping end-to-end features across PHP and JavaScript codebases. Earlier career includes four years leading a WordPress delivery team at an SEO agency. Now focused on **data engineering** and **agentic / multi-agent LLM systems** — recently designed and shipped a medallion-architecture data platform on AWS (S3 · Glue · Airflow · RDS Postgres, provisioned via Terraform) and two solo AI products: a video-analysis squash coach/referee and a multi-agent VS Code assistant. Certified on the Anthropic Claude API.

CORE TECH & YEARS OF EXPERIENCE

PHP / WordPress	7+ years production — custom themes from scratch, plugins, multisites
MySQL / SQL	7+ years — schema design, complex joins, query optimization
JavaScript / TypeScript	5+ years — modern React, Vue 3, Svelte, plus React/Preact Gutenberg blocks
Python	2+ years as primary language — data engineering & AI (scripting since 2017)
AWS data stack	1+ year — S3, Glue (PySpark), MWAA Airflow, RDS Postgres, IAM, Terraform
LLM / Agentic AI	1+ year — Claude API, Gemini, multi-agent orchestration, tool use, RAG

EXPERIENCE

Data Engineer

Oct 2025 – Present

Designed and built an end-to-end batch data platform on AWS using medallion architecture, integrating multiple source domains into an analytics-ready warehouse in RDS Postgres.

- Provisioned the full cloud stack as infrastructure-as-code with **Terraform** — S3 data lake, IAM roles & policies, AWS Glue jobs, MWAA (Managed Airflow), RDS Postgres, and VPC networking.
- Implemented **medallion architecture** (raw → bronze → silver → gold): raw CSV/JSONL files landed in S3 are transformed to Parquet through bronze and silver layers, then joined and enriched into a curated gold schema in Postgres.
- Developed **6 PySpark ETL jobs on AWS Glue 4.0** (G.1X × 2 workers) covering three source domains — sales, customers, and user profiles — including cross-source enrichment (silver → gold writing to `gold.user_profiles_enriched`).
- Orchestrated **4 Apache Airflow DAGs** on MWAA that trigger Glue jobs via GlueJobOperator — two @daily pipelines (sales, customers) and two on-demand (user profiles, enrichment). DAG source synced from S3 every ~5 min.

- Modeled the gold layer in Postgres for downstream analytics consumption — enforced keys, types, and idempotent writes so re-runs produce stable results.

Stack: Python · PySpark · AWS (S3, Glue, IAM, MWS, RDS Postgres, VPC) · Apache Airflow · Terraform · SQL · Parquet

Full-Stack Developer · Brand Legends (Remote)

Jun 2022 – Sep 2025

End-to-end full-stack delivery across a WordPress / PHP backend and a modern JavaScript frontend for SEO-focused client products, plus design and build of a custom SvelteKit analytics dashboard. All WordPress engineering delivered solo.

- Built **custom WordPress themes from scratch** — structured, semantic HTML with on-page and technical SEO handled both in code and via plugin configuration.
- Architected **multilingual / multi-region content infrastructure** using WordPress multisite plus custom plugins for content management and per-region SEO settings.
- Modeled content with **Advanced Custom Fields (ACF)**, Custom Post Types (CPT), and custom taxonomies; wrote **complex SQL queries** to power filters, sorting, and large-catalog listings efficiently.
- Exposed **custom WordPress REST API endpoints** for specialized data handling and headless integrations.
- Built **block themes with custom native Gutenberg blocks** in React / Preact — moving content creation off page-builders and onto the Gutenberg editor.
- Built a **custom SEO analytics dashboard** in SvelteKit aggregating third-party APIs (Ahrefs, Wincher, Matomo) — visit trends, keyword rank history, per-day / per-month breakdowns — with interactive visualizations rendered via *d3-shape*.
- Designed the relational data model and managed migrations with **Prisma ORM** on MySQL; validated forms end-to-end with **Zod**; integrated **Sentry** for error tracking and performance monitoring.
- Owned end-to-end delivery — database schema → REST API → frontend integration → deployment — on a long-lived product, balancing new feature work with refactors and performance improvements.

Stack: PHP · WordPress (multisite, ACF, CPT, custom REST API, Gutenberg) · React · Preact · JavaScript · TypeScript · SvelteKit · D3 · Prisma · Zod · Sentry · MySQL

Team Lead, Content Makers Team · Internet Vikings (SEO Agency)

2016 – 2020

Led a WordPress-specialized delivery team across a portfolio of client sites — team management, QA, technical direction, and release coordination alongside hands-on delivery on page-builder projects.

- Owned **team management and delivery planning** — scoping, estimation, task allocation, timelines, and release coordination across a distributed team.
- Ran **QA and release processes** — code review, acceptance checks against client briefs, and quality gates before deployment.
- Mentored team members through pair programming, code review, and internal documentation standards.
- Delivered client sites using **Elementor and Divi** page-builders when speed-to-market was the priority; maintained custom plugins and theme customizations for long-lived sites.
- Standardized builds and deployments with **Linux, wp-cli, and Git** — reproducible environments across the team.

Stack: WordPress · PHP · JavaScript · MySQL · Linux · wp-cli · Elementor / Divi · Git

System Administrator · "KM" Group of Companies

Jul 2012 – Jul 2015

- Supported Windows-based infrastructure and administered a corporate network of 100+ devices.

FEATURED PROJECTS

Grok Forge — VS Code Extension (multi-agent AI assistant) *Solo · github.com/pyRadiohead/grok-forge*

VS Code extension that ships a Grok AI assistant into a sidebar, with a multi-agent mode that runs several agents in parallel against xAI's beta Responses API. Handles per-agent streaming event identification and real-time rendering of multi-agent dialogues, plus secure API-key storage.

Stack: TypeScript · VS Code API (WebviewView, SecretStorage, commands) · Vercel AI SDK (@ai-sdk/xai, ai, xai.responses()) · Vue 3 Composition API · esbuild

Squash AI Coach / Referee — Video-Analysis App *Solo · End-to-end*

Users upload a squash match clip and receive referee-style decisions on contested moments plus coaching statistics — strike counts, shot heatmap, and per-rally metrics. Combines computer vision for player / ball detection with an LLM analysis layer on top of structured rally data.

Stack: SvelteKit · TypeScript · Tailwind · FastAPI · YOLOv8 · yt-dlp · ffmpeg · Gemini / Gemma

SKILLS

Languages	Python · TypeScript · JavaScript · PHP · SQL
Data & Pipelines	ETL / ELT · Medallion architecture · AWS Glue (PySpark) · Apache Airflow (MWAA) · Parquet · Terraform
Databases	PostgreSQL (incl. RDS) · MySQL · Prisma · complex SQL, joins, indexing
Cloud & Infra	AWS (S3, Glue, IAM, MWAA, RDS, VPC) · GCP · Docker · Linux · CI / CD
AI / ML	Agentic AI · Multi-agent LLMs · Claude API (Anthropic) · Gemini · Gemma · RAG · LLM tool use · Vercel AI SDK · YOLOv8
Frontend	SvelteKit · Vue 3 · Nuxt · React · Preact · Tailwind · D3 · Gutenberg blocks
Backend	FastAPI · WordPress (custom themes, multisite, ACF, CPT, custom REST API) · Node
Tooling	Git · esbuild · Webpack · Gulp · Sentry · Zod · wp-cli · Elementor / Divi
Leadership & Process	Team management · QA & code review · Mentoring · Release coordination · Delivery planning

CERTIFICATIONS & COURSES

Building with the Claude API	Anthropic · 2026
Data Engineering (diploma)	Robot Dreams · 2026
ReactJS	Beetroot Academy · 2020
Front-End	Beetroot Academy · 2018
Python	Beetroot Academy · 2017
PHP Backend	Beetroot Academy · 2016

EDUCATION

Master of Economic Cybernetics · Poltava University of Economics and Trade	Sep 2007 – Sep 2012
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LANGUAGES

English — B2 Ukrainian — Native