

# OLEKSANDR (ALEX) VAKHOVSKYI

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## SUMMARY

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Senior Full-Stack Engineer with deep backend expertise in PHP/Laravel and modern frontend development with Vue.js. Proven experience building scalable B2B and B2C platforms, designing robust REST APIs, and integrating complex third-party systems. Strong background in architecture, database design, performance optimization, and CI/CD automation. Hands-on with containerized environments (Docker) and AWS fundamentals (ECR/ECS). Experienced in designing and operating AI-driven and agentic workflows, using PHP, Python, Go, and Node.js to build and integrate LLM-powered tools that streamline development, improve code quality, and boost productivity.

## CORE SKILLS

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**Backend:** PHP 8+, Laravel, Python (familiar), APIs, WebSockets, OAuth, RabbitMQ, Redis

**Frontend:** Vue.js 2–3, React (familiar), JavaScript ES6+, TypeScript, SCSS

**Databases:** MySQL, PostgreSQL, Redis, MongoDB (familiar)

**DevOps & Infra:** Git, Docker, AWS (S3, EC2), Azure, CI/CD (GitHub Actions, Bitbucket Pipelines), Linux

**Testing:** Git, PHPUnit, Pest, Pcov, SonarQube, Postman

**AI Tools:** Claude Code, Cursor, AI Agents, MCP

**Architecture:** Modular Monolith, Domain-Driven Design, Event-Driven Architecture

**Methodology:** Agile, Scrum, Kanban, Lean UX, Example Mapping

## PROFESSIONAL EXPERIENCE

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**SolidProfessor.com – Mountain View, CA / Remote**

**Jun 2023 – present**

**Senior Software Engineer**

- Designed and launched the full backend and API infrastructure for a job-seeking platform, enabling portfolios, job search flows, and skills assessments for thousands of users with reliable and scalable performance.
- Diagnosed and resolved a critical server configuration bottleneck, restoring stable authentication and file-upload operations with **100%** uptime.
- Refactored legacy models and optimized SQL queries, reducing API response time by **56%** and decreasing admin dashboard load from **3.2s to 1.4s**.
- Re-engineered the search and filtering layer to support multilingual content and role-based access, improving relevance and cutting query execution time by **60%**.
- Introduced a modular monolith architecture, improving maintainability and enabling isolated backend and frontend module development.
- Contributed to an internal hackathon MVP by integrating AI-assisted search ranking, increasing engagement with educational materials by **~20%**.
- Developed cross-platform developer tooling in Go (Docker + WSL2), reducing onboarding time in mixed Windows/WSL2 environments by **50%**.
- Designed and implemented agentic AI workflows for software development, defining rules, skills, and automated coding pipelines to improve productivity and code quality.
- Documented backend and frontend workflows, creating onboarding guides that cut new engineer ramp-up time by **30%**.
- Performed code reviews and provided engineering guidance to junior backend developers, ensuring architectural consistency while contributing to frontend development using Vue.js and TypeScript.

- Redesigned and modernized the county's public website and built an internal admin dashboard, improving content management efficiency and usability for **10+** departments.
- Engineered a secure document management system for posting, searching, and storing files with role-based access, streamlining internal workflows and reducing document retrieval time.
- Refined MySQL queries and optimized database schema, cutting data load time by **30%** and improving overall system responsiveness.
- Streamlined deployments using GitHub Actions and Docker, reducing deployment time by **50%** and increasing release stability.
- Introduced Git-based workflows and automated deployment processes, strengthening version control practices and ensuring consistent software quality.

- Developed backend API for an affiliate marketing platform handling large volumes of statistical and financial data, ensuring reliable data delivery and system stability.
- Reworked dashboard services and queries, improving throughput by **25%** and enhancing real-time reporting performance.
- Delivered an affiliate portal (Vue.js, REST API) that enabled partners to manage and monetize campaigns, accelerating onboarding and increasing revenue per partner.
- Expanded data processing and reporting capabilities, improving scalability and supporting seamless partner integrations (Redis, Docker, Linux).
- Upgraded reporting and data pipelines using Redis and Docker, **doubling scalability** for new partner integrations and reducing processing delays.

- Led full-stack development of CRM and two e-commerce platforms, contributing to **double revenue growth** each year over two years.
- Created REST API integrations with marketing, order processing, and inventory systems, streamlining data exchange and reducing manual workflows.
- Managed project scope, architecture, and team coordination while remaining hands-on in backend development, ensuring timely delivery of key releases.
- Automated CI/CD workflows and server management (Debian, Docker, GitHub Actions), reducing downtime during deployments from **50% to 90%**.
- Integrated Elasticsearch and analytics tools for remarketing, improving targeting accuracy and campaign effectiveness.
- Enhanced DB performance and real-time sync, reducing stock update latency from **60s to under 10s**.

## EDUCATION

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- **Chernihiv Polytechnic National University Chernihiv, Ukraine**  
Master's Degree in Finance 2012