

Vlad M.

AI ENGINEER · BLOCKCHAIN ARCHITECT · SENIOR NODE.JS / NESTJS & PHP DEVELOPER

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Senior software engineer with 18+ years of professional experience and 30 years of hands-on programming background, specializing in backend development, AI engineering, and blockchain/Web3 systems. Deep expertise in Node.js, NestJS, PHP, microservices, and distributed architectures, with a strong foundation in information and network security. Proven track record of designing, building, and scaling production systems across SaaS, fintech, and e-commerce domains.

Core Competencies

AI Engineering & LLM Integrations

Backend Architecture & Microservices

Distributed Systems & Performance Optimization

Blockchain / Web3 Development

Security-Oriented Engineering

Technical Skills

AI / LLM

AI Pipelines, LLM Integrations, Conversational AI, Voice AI, Prompt Engineering

BACKEND & ARCHITECTURE

Node.js, NestJS, PHP, Laravel, Microservices, GraphQL, Neo4j, API Development

BLOCKCHAIN / WEB3

Solidity, Smart Contracts, Ethereum, Web3 Integrations

FRONTEND

Next.js, React.js, Modern JavaScript

DATABASES & INFRASTRUCTURE

MySQL, Redis, ElasticSearch, Memcached, Linux, Apache

SECURITY

Information Security, Network Security, Cryptography, Firewalls, VMware

LANGUAGES & TOOLS

JavaScript, Go, Git, JSON, XML, OOP

INTEGRATIONS

WordPress, WooCommerce, Magento, ShipStation, Klaviyo, HubSpot, Various APIs

● Professional Experience

● **AI Engineer – AgentVoice** May 2025 – Present · Remote

- › Developing AI voice platform for real-time conversational applications
- › Building backend services using NestJS and Node.js
- › Implementing frontend features and dashboards with Next.js
- › Integrating and orchestrating multiple LLM providers
- › Designing scalable AI pipelines and production-grade APIs
- › Establishing and optimizing development workflows, code review processes, and deployment pipelines
- › Organizing work processes and coordinating cross-functional development efforts

● **AI Engineer – Self-employed** Mar 2025 – Present · Remote

- › Building AI-enabled backend services and integrations
- › Developing AI-powered image optimization applications with intelligent compression and quality enhancement
- › Designing automation and intelligent data-processing workflows
- › Delivering end-to-end AI solutions from architecture to production

● **Senior Node.js Developer – Self-employed** Jul 2021 – Present · Remote

- › Designing and implementing backend systems using Node.js and NestJS
- › Building microservices and GraphQL APIs for enterprise applications
- › Developing analytics applications with real-time data processing and reporting
- › Creating inventory management systems with automated tracking and optimization
- › Building replenishment prediction systems using data analytics and forecasting algorithms
- › Developing custom cryptocurrency payment systems and blockchain integrations
- › Delivering scalable, high-load systems for distributed teams

● **Blockchain Developer – Self-employed** May 2021 – Present · Remote

- › Developing blockchain applications and smart contracts
- › Building Web3 integrations and backend services
- › Working with Solidity and Ethereum ecosystem tooling
- › Developing DeFi tokens, DEX platforms, and lending protocols

● **Senior PHP Developer – Freelance** Jun 2018 – Present · Remote

- › Developing and maintaining large-scale PHP applications and custom APIs
- › Extensive work with WordPress, WooCommerce, Magento, Laravel
- › Building and optimizing high-load WooCommerce stores handling thousands of transactions daily
- › Developing custom payment methods and payment gateway integrations for WooCommerce
- › Creating systems and extensions for payment optimizations including restrictions, throttling, and risk filters
- › Developing CRM systems and customizing existing CRM solutions for e-commerce workflows
- › Successfully optimizing performance of high-load projects through caching, database optimization, and code refactoring
- › Payment systems, shipping integrations, automation, performance optimization

● **PHP Developer – NIX Ukraine** Dec 2012 – May 2020 · Kharkiv, Ukraine

- › Enterprise PHP development and long-term product maintenance
- › API integrations, ElasticSearch, MySQL, Redis
- › Working within structured engineering teams and production environments

● **Network Security Specialist – Court** 2011 – 2012 · Kharkiv, Ukraine

- › Network and infrastructure security operations
- › Firewalls, virtualization, Linux servers, database security

● **PHP Developer** – Company name not disclosed

Oct 2007 – Jul 2008 · Kharkiv, Ukraine

- › Full-time PHP development for commercial web applications
- › Backend logic, database-driven features, system maintenance

● **Education**

MSc, Information Security

Kharkiv National University of Radioelectronics

2005 – 2010

● **Languages**

Ukrainian Native

Russian Native

English Professional