

# Artem Slaston



Backend Engineer (PHP, TypeScript, Systems)

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## SUMMARY

Backend Engineer with 5+ years of experience specializing in high-maintainability system design. I focus on **architectural maturity**, implementing Clean Architecture via Action Pattern, DTOs, and Mappers to ensure decouple business logic from delivery mechanisms.

Possess a **deep technical curiosity** extending into systems programming and low-level networking, with practical experience in reverse engineering (ELF/PE analysis, firmware) and implementing custom network protocols. Experienced in optimizing high-load database queries (PostgreSQL/MySQL) via execution plan analysis and B-Tree index optimization.

Strong **DevOps mindset**: capable of independently building containerized environments (multi-stage Docker), configuring GitLab CI/CD pipelines with automated SSH deployment, and managing Linux server permissions (ACLs). Proficient in technical documentation and async communication in English.

## EXPERIENCE

### Freelance

Remotely

Backend Engineer | Real Estate Platform (Phalcon)

Dec 2024 - Apr 2026

- Executed a strategic refactoring of legacy **Phalcon** code, **decoupling "fat" controllers and models** into a service-oriented architecture, which significantly reduced technical debt and accelerated the feature delivery cycle.
- Optimized high-load PostgreSQL queries by analyzing execution plans, **reducing key endpoint response times by 20%** and ensuring sub-second load speeds for complex data sets.
- Designed and implemented a **fully automated synchronization engine** with Magento e-commerce via JSON-RPC, ensuring strict data consistency and eliminating manual data migration overhead.

### Freelance

Remotely

Backend Engineer | Payment Systems

Jul 2024 - Aug 2024

- Developed a secure payment processing gateway via Monobank API, implementing **idempotency keys** and a robust retry mechanism to ensure 100% transaction reliability.
- Automated user access provisioning through PaperMC API integration, achieving **instant service delivery** upon payment confirmation and eliminating administrative manual work.

### Self-Employed

Remotely

Systems & Backend Developer

Jun 2022 - Dec 2024

- Architected multiple scalable system components to explore polyglot architectures, utilizing **TypeScript, Node.js, and Java 17** to optimize specific service requirements.
- Focused on implementing **modular design patterns** and building custom CLI tools to automate local development workflows.

### Ronis

Kharkiv, Ukraine

PHP Developer (Phalcon)

Jun 2021 - Jun 2022

- Collaborated in a cross-functional team using Jira to streamline the full SDLC, utilizing **Phalcon** for high-performance backend services.
- Developed REST API endpoints following **OpenAPI/Swagger specifications**, reducing integration time with SPA frontend teams.
- Significantly increased the reliability of RabbitMQ-based email queues by implementing **DTO validation** and robust exception handling, eliminating worker crashes.
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Reduced production bug count by ~20% through tight collaboration with QA and implementation of comprehensive test cases during development.

- Standardized local development environments via **Docker Compose**, reducing new member onboarding time by ~30%.

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## <> FEATURED ENGINEERING PROJECTS

### Professional Ticketing & User Management System

2026

- Implemented a **decoupled backend** using the Action Pattern and DTOs, moving business logic out of controllers to ensure high reusability across Web, API, and CLI interfaces.
- Developed a robust **RBAC system** (Spatie Permissions, Laravel Policies) verified through a comprehensive suite of PHPUnit feature tests.
- Leveraged PHP 8.x Enums and strict typing to implement a type-safe domain model and eliminate runtime errors.
- Built a custom **Mapper pattern** and Eloquent Query Scopes to isolate the database persistence layer from the presentation layer.

### AppCore: Modular Systems Framework

2023-2024

- Designed a **plugin-based architecture** in TypeScript allowing dynamic loading/unloading of system and user modules from the filesystem.
- Implemented a **Service Locator pattern** to manage dependencies and provide centralized access to core system components.
- Developed a **Data Mapper layer** to translate raw data objects into strictly typed domain models, ensuring architectural consistency.
- Utilized Event-Driven design (EventEmitter) to manage the lifecycle of system components.

### SOCKS5 UDP Proxy Verifier

Self-Directed

- Implemented a low-level networking tool in Pascal/Lazarus to verify **UDP support in SOCKS5 proxies**, solving a specific connectivity issue for RakNet-based applications.
- Worked directly with **socket-level communication** to implement the SOCKS5 handshake and UDP association protocols.
- Developed a custom multi-threaded checker to validate proxy stability and protocol compliance.

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## PROFILES

### GitHub

[artem-slastyon](#)

### LinkedIn

[artem-slastyon](#)

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## TECHNICAL STACK

### <> Core Backend

PHP 8.x (SOLID, Action Pattern, DTO), Laravel (Service Providers, DI, Eloquent Optimization), Phalcon (Performance optimization, DI Container), TypeScript & Node.js (Generics, Modular Architecture), Java 17+ (Streams API, Gradle)

### Data Management

MySQL / MariaDB (B-Tree Indexes, EXPLAIN), PostgreSQL (Query Optimization, Normal Forms), MongoDB (CRUD, Basic Aggregations), Redis (Caching, Session Storage)

### Infrastructure & DevOps

Docker (Multi-stage builds, Compose), GitLab CI/CD (Pipelines, SSH Deploy), Linux Admin (Bash, ACL/setfacl, systemd), Web Servers (Nginx, Apache, Certbot)

### Systems & Research

Reverse Engineering (ELF/PE, Decompilation), Networking (UDP/TCP, SOCKS5 Protocol), Firmware Analysis, Low-level Debugging (XDebug, GDB)

 LANGUAGES

English

Professional Working Proficiency



Russian

Native



Ukrainian

Professional Working Proficiency



 PROFESSIONAL DEVELOPMENT

Advanced Backend Architecture

2021

Self-Directed Study

Specializing in PHP 8.x, System Design, and PostgreSQL Optimization. Focus on implementing SOLID, DRY, and design patterns in commercial projects.

 ENGINEERING INTERESTS

System Analysis

Executable Disassembly, Binary Analysis, OS Internals

Infrastructure

HomeLab Automation, Self-Hosting, Network Security