

ILYA D.

Senior Fullstack Developer

ilya.druzhinin@plus8soft.com

SUMMARY

Senior Fullstack Developer with over 8 years of experience in building, optimizing, and supporting high-load backend systems for trading, analytics, and real-time data applications. Expert in designing scalable, fault-tolerant architectures and creating FIX protocol adapters. Strong skills in integrating trading platforms via REST and WebSocket APIs, protocol conversion, and developing low-latency order management solutions. Proficient in monitoring, logging, high-availability, and automatic failover mechanisms.

TECH SKILLS

Languages & Frameworks: NodeJS, Golang, Python, PHP, TypeScript, FIX, gin, GORM, Sqlx, Cobra, Express, Next, Nitro, Sequelize, TypeORM, Mongoose, Jest, Mocha, Laravel, Symfony, Vue, React, Pinia, Vuex, Nuxt, Tailwind, SCSS, Capacitor, Cordova

Backend & Architecture: High-load backend systems, Scalable architectures, Fault-tolerant systems

Databases: PostgreSQL, Clickhouse, MySQL, Redis, MongoDB, SQLite, Firebase

Cloud & DevOps: Docker, Kubernetes

Messaging & Communication: Kafka, NATS, gRPC, Redis Streams, FIX, WebSocket APIs, REST APIs

WORK EXPERIENCE / PROJECTS

2025 – 2026 · Development of the Trading Terminal (MVP)

Designed and developed an MVP trading terminal on MetaTrader 5 with a long-term goal of evolving into a proprietary trading platform.

- Built and maintained historical OHLCV candle storage for 200+ trading instruments across 8 timeframes, ensuring complete and consistent historical market data.
- Implemented a real-time mechanism for detecting and automatically correcting market data artifacts (gaps and missing candles).
- Developed the terminal's client API, including customer CRUD operations and trading functionality.
- Developed the administrative API, including customer and trading account CRUD operations and trading management features.
- Configured multi-level rate limiting to protect APIs and ensure service stability.
- Configured CORS for multiple environments, including support for embedded WebView applications.
- Integrated Datadog metrics and structured JSON logging for monitoring and observability.
- Integrated Sentry for backend error tracking and performance monitoring.
- Contributed to the React frontend by fixing bugs and implementing small features.

Skills: Node.js (NestJS), Python, React, PostgreSQL, Redis, ClickHouse

2024 - 2025 · Integration of Trading and Analytics Software with the TOPTier Brokerage Platform

Designed and developed an intermediate gateway in Golang to integrate trading software with the brokerage platform.

- Initiated and designed the architecture of the gateway for seamless integration between FIX and REST/WebSocket.
 - Developed a protocol conversion module for two-way translation between FIX and REST/WebSocket.
 - Created a high-performance Data Feed module for market data delivery in FIX format with minimal latency.
 - Ensured automatic subscription recovery for real-time data streams via WebSocket.
 - Developed an order management system for processing FIX messages and converting them into REST requests.
 - Optimized gateway architecture for scalable and fault-tolerant operation with monitoring and logging.
 - Implemented aggregation and storage of historical market data using Clickhouse and PostgreSQL.
 - Introduced a health-check and automatic failover system for high availability.
 - Organized code review and technical audit processes to improve code quality.
 - Collaborated with client teams to clarify business requirements and optimize data exchange.
- Skills:** Golang, FIX, REST, WebSocket, Prometheus, Grafana, Clickhouse, PostgreSQL

2019 - 2024 · Backend Solutions for Fintech and E-commerce Projects

Designed and implemented backend solutions focusing on high-load, real-time data processing.

- Architected and delivered multiple CRM and ERP systems ensuring scalability and reliability.
 - Developed a custom Order Management System supporting advanced order routing and integration.
 - Built robust analytical tools and dashboards for business performance tracking.
 - Managed simultaneous delivery of diverse projects utilizing Docker and Kubernetes.
 - Created full-cycle web and mobile solutions ensuring high performance and security.
- Skills:** Golang, Laravel, Vue.js, PostgreSQL, TypeScript, Node.js, Docker, Kubernetes

2018 - 2019 · Scalable Backend Infrastructure Development

Worked on developing high-performance backend infrastructure for enterprise applications.

- Designed and implemented robust RESTful APIs and data pipelines.
- Improved system reliability and efficiency through automation using Docker and Kubernetes.
- Optimized application performance by profiling critical paths and refactoring components.
- Conducted regular code reviews and promoted Go development best practices.

Skills: Golang, RESTful APIs, Docker, Kubernetes

EDUCATION

MSc in Computer Science

LANGUAGES

Russian, English B1