Dmytro Syniak Senior Full-Stack Software Engineer

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SUMMARY

Senior Full-Stack Engineer with 6 years of experience. Specialized in **System Architecture**, **High-Concurrency Data Processing**, and building scalable SaaS products. Proven track record of architecting distributed systems handling **400+ concurrent data pipelines**, reducing infrastructure costs by **90%**. I combine deep technical expertise in **Node.js (Nest.js)** and **Event-Driven Architecture** with a strong product mindset (bootstrapped a platform to **17k+ users**).

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), SQL.
- **Backend:** Node.js, Nest.js, Express, RESTful API, WebSockets, BullMQ (Message Queues).
- **Frontend:** React, Next.js, Redux Toolkit, TanStack Query, TailwindCSS.
- **Database & Storage:** PostgreSQL, Redis, Prisma ORM, TypeORM, SQL Optimization.
- **Infrastructure & DevOps:** AWS, Docker, Docker Engine API, Linux (Bash), CI/CD (GitLab/GitHub), Git.
- **Monitoring & Observability:** Prometheus, Grafana, Sentry.
- **Architecture & Concepts:** High-Load Systems, Microservices, OOP, SOLID, Feature-Sliced Design (FSD), Agile.

JOB EXPERIENCE

Senior Full-Stack Engineer

Jan '23 – Dec '25 (**3 years**) — MarTech Data Processing & Automation Platform (NDA)

Designed and maintained a distributed SaaS platform for **Automated Data Aggregation** and **Marketing Workflow Automation** (Campaign Orchestration & Asset Management).

- **High-Concurrency Scale:** Orchestrated a distributed cluster handling **400+ concurrent data pipelines**, ensuring high availability for critical business operations.
- **Resource Optimization:** Achieved a **90% reduction in RAM usage** by reverse-engineering heavy client-side data flows into lightweight **Node.js API clients**. This optimization allowed the business to scale capacity **4x** on the same hardware.
- **Infrastructure Management:** Built a cost-efficient container management system using **Docker Engine API** on bare-metal servers. This provided granular control over **400+ isolated execution environments**, eliminating the overhead of complex orchestration tools.
- **Reliable Async Architecture:** Implemented a fault-tolerant **Event-Driven Architecture** using **Redis & BullMQ**. Designed intelligent throttling strategies to handle rate-limited integrations and ensure stable throughput.
- **Declarative Logic Engine:** Developed a custom execution engine that interprets **JSON-based business scenarios**. This enabled "hot-reload" of automation rules without code redeployment, significantly reducing time-to-market for updates.
- **Observability & UI:** Developed a real-time **Mission Control Dashboard** (Next.js, WebSockets) allowing operators to monitor infrastructure health, active threads, and system performance metrics.

Founder & Full-Stack Developer

Feb '20 – Dec '22 (**2 years 11 months**) — E-commerce Platform for In-Game Digital Assets

Bootstrapped a profitable niche marketplace for digital goods, serving **17,000+ customers** over its lifecycle.

- **Product Ownership:** Managed the entire lifecycle from MVP to a stable, profitable product. Focused on **automating sales processes** to minimize manual operation costs.
- **Financial Integrity:** Designed a strict **ACID-compliant transactional ledger** in PostgreSQL to ensure 100% accuracy of user balances and virtual currency logic.
- **Business Logic:** Engineered a flexible **loyalty system** (cashback, referral tiers, promo codes) that increased user LTV and retention.
- **Secure Payments:** Integrated multiple payment gateways with a reliable **automated checkout flow**, ensuring secure handling of customer funds.
- **Operational Efficiency:** Developed a custom **Telegram Bot** for real-time order notifications and mobile admin control, allowing for rapid support response.

EDUCATION

Zhytomyr Polytechnic State University
Master's degree in Computer Software Engineering | Sep '19 – Dec '20
Bachelor's degree in Computer Software Engineering | Sep '17 – Jun '19

Berdychiv Professional College of Industry, Economics and Law
Professional Junior Bachelor in Software Development | Sep '13 – Jun '17

LANGUAGES

Ukrainian (Native); English (Upper Intermediate — B2)