

Denis Shvetsov

Systems Architect

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About Me

Hi, my name is Denis.

I am a Systems Architect driven by the “first-principles” approach to engineering. While I have a deep background in business analysis and technical writing, I have transitioned into architecture by doing what I do best: building complex, functional systems from the ground up.

My technical intuition is rooted in the “pre-LLM” era, meaning my skills are built on a solid foundation of architectural fundamentals rather than prompt dependency. I leverage modern AI tools to accelerate my workflow, but I treat them with caution and scrutiny.

What I bring to a project:

- Architectural Ownership: I don't just design on paper, I build. My recent work involves orchestrating multi-service environments using NATS, Python, and a variety of data tools.
- Mental Flexibility: I am tool-agnostic. I select the best stack for the task, so it can be a lean, independently hosted Postgres-based implementation or a massive AWS-based microservices mesh.
- Efficiency-First Mindset: I thrive in environments that value technical excellence over corporate bureaucracy. I prefer building high-impact, “sovereign” systems that solve real-world problems without unnecessary overhead.

Core Stack: NATS, Python (FastAPI/SQLAlchemy), PostgreSQL, Docker, and Strategic System Design.

Experience

CompStak— Senior Technical Writer

July 2020 - Present

Link: <https://compstak.com>

At CompStak I am working on setting up a consistent documentation architecture across the company's technical portfolio. I maintain day-to-day documentation activities, assist with knowledge sharing, research new tools and approaches. I created release notes template and process, and participated in defining other flows and processes. I also author and maintain API documentation, internal technical docs, runbooks, and other materials.

StageRoll— Business analyst

December 2020 - April 2021

At StageRoll I was working on the discovery stage of a new product development - preparation for

PoC, MVP and further stages of the development pretty much simultaneously. This included diagrams of various kinds, written documentation and oral communication of knowledge to other members of the team

Giggster— Data analysis & visualization specialist
November 2020 - August 2021

In my 2nd iteration with Giggster I was working on the data accumulation and analysis project - basically a custom ETL in its own right - with a data visualization module (Python + Plotly + Dash) as its ultimate outlet.

Business Process Technology— Business analyst
June 2020 - January 2021

At BPT I was working on several projects, including in-house products, but mostly on the cryptocurrency exchange Exchanger.ee, which I led from conception and almost to release. My responsibilities included elaboration of user stories and business use cases, mockup creation, documentation maintenance, requirements clarification etc.

Giggster— Business analyst
March 2016 - November 2019

With Giggster my responsibilities included monitoring of the market (benchmark analysis); research of various aspects of the business operation; integration of the 3rd-party data into the system; writing technical documentation, including user stories and use cases; composing diagrams in UML notation; creating mockups; conducting interviews/maintaining relationships with stakeholders of different levels; etc.

Postindustria / Jobjet— Business analyst
March 2016 - November 2019

In February of 2016 I started collaborating as a business analyst on several projects at Postindustria; mostly on *Jobjet* and *Giggster*, two flagship products of the company. Here I sourced and procured quality databases for enrichment of the operational DBs; hired freelancers for particular sub-projects and managed their activity; coordinated active communications between different stakeholders within the company, as well as external ones; wrote technical documentation; etc.

IQRIA— Business analyst | Technical writer
January 2015 - February 2016

I was hired as a technical writer first, but soon enough the spectre of my responsibilities expanded to include mock-ups & wireframe design, communication with customers, as well as research of various aspects of business processes, and other stuff related to the product development activities.

Moscow Translations Center— Head of Translation Office
March 2011 - June 2014

Responsibilities included performing translations, managing office and finances.

Education

Kiev Slavonic University— Master's degree in International Relations
2001 - 2006

This was a minor establishment that, however, provided solid foundation in history and generic social

sciences. First two years I spent in Mykolaiv, in a local offshoot of the Uni, and in 2003 I moved to Kyiv to continue education. I received bachelor's degree in 2005, and master's - a year later.

Russian State University of Cinema in Moscow

2006 - 2008

I spent 2 years studying cinema in the workshop by Sergei Solovyov & Valery Rubinchik (both - practicing film directors), and only quit due to lack of funding. I enrolled because I love movies, and always had a thing for writing. Though it didn't work out for me, I did acquire a number of foundational skills, and a few life-long friends.

Skills

These are high-level competencies. Complete list of my skills in YAML format is available [here](#).

Enterprise & Solution Architecture, Systems Design, Requirements & Analysis, Back-end Engineering, Data Architecture, Observability & Lifecycle, Delivery Management, Knowledge & Innovation Management

Tools

TOGAF, OpenTelemetry, NATS, Docker, Kubernetes, Redis, Microservices, Independent Hosting, AWS, AsyncAPI, git, scripting, uv, FastAPI, Pydantic, sqlalchemy, sqlmodel, PostgreSQL, SQLite, MongoDB, sql, pandas, Google Sheets, array formulas, Linux, Hyprland, Jira & Confluence, UML & BPMN, BABOK

Proof of Skill

I build a project, which purpose is to collect, clean, and analyze data around a certain geographical slice of the media landscape.

As of beginning of 2026 the implementation consists of 12 applications (including dedicated orchestrator and data hub) that co-exist in the NATS-based system, with 9+ distinct cross-service flows among them. Technologies employed include website crawling (with and without LLMs), machine learning experiments (MLflow), OTel, HTTP endpoints with FastAPI, Telegram bots, various API integrations, as well as LLM-based determination of relevance (CrewAI).

If you wish to learn more, visit dedicated [documentation repository](#). Here you will find:

- AsyncAPI specifications for all applications
- AsyncAPI specifications and diagrams for the cross-application flows
- Plain-language description of applications and initiatives
- Elaborate intentions for various features, both implemented and planned;

and more.

The code for the project is located [here](#), and is currently closed to the public. Details and access would be provided on request.