

I design and build trading systems, from the click on Buy to the venue and back.

Senior engineer with 10+ years of experience, including 6 years building trading and brokerage systems. Hands-on across order routing, FIX venue integrations, real-time market data, APIs and market-abuse surveillance. Used to the problems that keep trading systems honest: order-state consistency across disconnects and restarts, races between orders, cancels and rejects, concurrency, failover and observability. Recently led the delivery of a Java/Vert.x and Angular compliance product from initial architecture to production. Experienced in technical leadership while remaining hands-on.



Work Experience

Oct 2025 – present

Deputy Head of Development & Technical Lead · tick Trading Software AG

Market-abuse surveillance lead (EU MAR), deputy Head of Development, still hands-on on the trading platform.

- **Surveillance API & web app:** Built the product's REST/WebSocket API (Java 21, Vert.x 5) and a new bilingual Angular web app for compliance officers from scratch, from first commit to production in ~10 months; sized for ~3.5M orders a month and being rolled out to the ~12 banks and brokers that run the product.
- **Technical lead:** Own the roadmap, architecture, specifications and delivery dates; lead a small team; set up customer UAT with Ops; introduced OIDC sign-in (Keycloak, Microsoft Entra ID, MFA).
- **Detection engine:** Implemented the insider-trading detector and co-reworked momentum-ignition detection, in an engine that screens for 8 families of market abuse.
- **Deputy Head of Development:** Sprint planning, weekly engineering health checks, company strategy meetings; stand in for the Head of Development.

Düsseldorf, Germany

Sep 2020 – Oct 2025

Software Engineer, trading platform · tick Trading Software AG

White-label trading platform behind the retail trading apps of German direct banks and online brokers; hands-on across its ~70 repositories, from the venue gateways to the apps.

- **Order management & APIs:** Hands-on on a platform that handles hundreds of orders per second from numerous banks and brokers at ~50 ms on average: MiFID II-compliant order flow, market-making and RFQ infrastructure, real-time order and portfolio streams, with order and portfolio state kept consistent when executions arrive late.
- **Venue gateways:** Designed and implemented FIX connectivity for CATS and Tradegate; extended an eight-venue trading infrastructure with advanced order types, auction-phase support and host failover, with order-state recovery after FIX session drops and restarts.
- **Market data:** Rewrote the Börse Stuttgart master-data import from Python to Java, worked on the LS Exchange trade and price feeds, connected a bank's own pricing system as a market-data plugin, and handled the regular Deutsche Börse T7 release upgrades.
- **Trading apps:** Made the white-label web trading app share one live connection and one settings state across all open browser tabs; added 1-second intraday candles end to end, from the history API to the chart; kept Time & Sales responsive under heavy load in the pro desktop client. Regular Angular and Capacitor upgrades.

Düsseldorf, Germany

Jan 2019 – Sep 2020

Software Engineer · Polarion (Siemens PLM Software)

Polarion ALM, Siemens' application lifecycle management platform, on an unusual stack: Eclipse Equinox (OSGi) with SVN as the persistence layer.

- **Product development:** Full-stack features and fixes across LiveDocs, test management and work items, from the Java/OSGi backend to the GWT web UI, plus a custom extension for a customer.
- **UI modernisation:** In a dedicated developer + UX team, redesigned the product's entire web frontend, replacing a dated look with a new visual language and SVG icons throughout.

Prague, Czech Republic

Feb 2016 – Jan 2019

Java Software Developer · MoySklad (LogneX)

A leading Russian cloud service for inventory, retail and online-trade management.

- **Public API:** Took on a large share of the API team's work: new REST endpoints, SOAP services and the API documentation, plus integrations with the 1C accounting system, online stores and bank-statement import over the banks' OAuth APIs.
- **Point of sale:** Worked on a new Scala.js POS client connected to fiscal cash registers (ATOL, Evotor): store-stock synchronisation and sales registration.
- **Team lead:** Co-led a team of five developers: sprint planning, process, retrospectives.

Moscow, Russia

Where I worked



tick Trading Software AG Deputy Head of Development & Technical Lead Oct 2025 – present · 1y 1m	10%
tick Trading Software AG Software Engineer, trading platform Sep 2020 – Oct 2025 · 5y 1m	47%
Polarion (Siemens PLM Software) Software Engineer Jan 2019 – Sep 2020 · 1y 8m	16%
MoySklad (LogneX) Java Software Developer Feb 2016 – Jan 2019 · 2y 11m	27%

Experience in software	10y 9m
in trading systems	6y 2m
Languages	English, full professional German, B1
Certification	Oracle Certified Associate Java SE 8 Programmer
Education	Computer Science studies (not completed) Higher School of Economics Sep 2013 – Jun 2017

Skills

Services & APIs	Java 21 · Vert.x 5 · Project Reactor · Spring Boot · Java EE / WildFly · REST & WebSocket APIs · OpenAPI
Data	MySQL · MariaDB · PostgreSQL · Hibernate · jOOQ · Lucene · Query optimisation
Trading domain	FIX protocol · Order routing · Charts & market data · MiFID II · MiFIR · MAR
Reliability	Order-state reconciliation · Failover & session recovery · JVM concurrency · Timeouts & backoff · Metrics & observability
Identity	OIDC · Keycloak · Microsoft Entra ID · MFA
Client	Angular · TypeScript · RxJS · Ionic · Capacitor / Cordova · PWA
Delivery	Git · Jenkins · CI/CD · Docker · Gradle
Learning	Go · Kotlin · Rust

Trading Venue Experience

	order routing	market data
Xetra	●	●
Eurex	●	●
Euronext	●	
Tradegate	●	
LS Exchange	●	●
CATS	●	
Börse Stuttgart		●
Wiener Börse	●	

AI engineering

- **Agent environments:** safe, virtualised setups for coding agents in a highly regulated codebase; sandboxed agent loops on my product's real tickets, every change under my review
- **Enablement:** agentic-coding talk, the company-wide AI usage guidelines, the LiteLLM proxy rollout, a framework for non-developers to build their own tools
- **Integrations:** exotic model-provider APIs taken apart and wired into the agent harness
- **Tooling:** my own MCP servers; knowledge bases for agents and humans, among them an agent-maintained map of a ~70-repository trading platform

Leadership

- **Tech Lead (since Oct 2025):** team and PM alignment, delivery planning, architecture docs, customer UAT and calls
- **Deputy Head of Development:** team health, process improvement, dev infrastructure, stand-in for the Head of Development
- **Earlier:** co-led a developer team for a couple of sprints at MoySklad (LogneX), 2016

Feel free to learn more about me on my personal website.

artempanin.dev/en

