Matt Zarei

Senior Backend Engineer | Trading Infrastructure (Python, Go, Exchange Systems)

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Senior Backend Engineer with **7+ years** building trading platforms, crypto exchange infrastructure, and distributed systems. Experienced in real-time market data, order execution, position/risk engines, event-driven backends, and production AI automation. Combines deep **Python, Go, Kafka, PostgreSQL, and Kubernetes** expertise with end-to-end ownership across **100+ futures markets** at a **7M+ user exchange**.

Technical Skills

Backend	Python (asyncio, FastAPI, Django, DRF, Celery), REST & GraphQL APIs
Systems & Data	Go, Kafka (KRaft), WebSockets, Apache Thrift, Redis, PostgreSQL, ClickHouse, TimescaleDB
Platform & Ops	Kubernetes, Docker, Linux, NGINX, GitLab CI/CD, Prometheus, Grafana, Metabase, SLOs
Frontend & Web3	TypeScript, React, Next.js, Node.js, Solidity (EVM)
AI & Tooling	OpenAI API, Claude, Prompt Engineering, Vector DB, Embeddings, AI CI/CD Agents, Cursor

Professional Experience

Senior Software Engineer **Jan 2024 – Aug 2026**

Tabdeal Cryptocurrency Exchange

Exchange with 7M+ users, 700+ markets, and a 70-person engineering team. Owned architecture, delivery, code reviews, and production operations across core platforms; mentored around 10 engineers.

Futures Market Maker | Exchange Connectivity, Execution, Position & Risk

- Built the futures market maker from scratch as part of a small team, launching liquidity across **100 markets**.
- **Market data & execution:** aggregated real-time WebSocket/HTTP feeds from **3 external exchanges** with priority/fallback rules; routed orders to the internal matching engine (also matching-engine code reviewer) via Apache Thrift.
- **Position & hedging:** consumed Kafka trade/order events to reconstruct live **market-maker and user positions**, reconcile balances, and run an automated hedging pipeline closing exposure under configurable policies.
- **Risk & observability:** enforced automated risk thresholds and alerting scenarios; built **Grafana, Prometheus, and Metabase** dashboards alongside quant and trading teams.

Apollo | High-Throughput Event Processing Platform (Tech Lead)

- Architected from scratch: WAF/**Go** intake → Kafka (KRaft) → Django/Celery consumers → PostgreSQL and ClickHouse, processing **300M+ events/month** at **10K events/sec** peak.
- Owned Kubernetes scaling, GitLab CI/CD, Prometheus/Grafana, APM, and production SLOs.

AI Engineering, Content Platform & Web3

- **AI CI/CD agents:** deployed multi-prompt LLM review agents (security, style, testing) in GitLab CI/CD across the backend team, improving **successful deployments by 14%** and cutting senior review time.
- **AI Content Platform & ReflectMarket:** built a pipeline ingesting **1,000+ daily articles from 100+ sources** using LLM translation, **vector DB embeddings** for deduplication, and multi-layer caching; owned Django/GraphQL APIs, Goldsky/Envio indexing, UMA oracle, and Solidity contracts.

Software Engineer **Apr 2023 – Jul 2023**

Refact | Remote, US

- Built Node.js/TypeScript ingestion pipelines and background jobs migrating thousands of legacy CMS records with stable API contracts.

Backend Developer / Technical Team Lead **Sep 2020 – Oct 2021**

Omega Do. IT Solutions e.U. | Remote, Austria

- Delivered **12+ production applications** for Austrian clients; built reusable backend modules reducing project setup time by approximately **30%**.

Other roles (2017 – 2023): Mediana (Redis caching, React), Khorshid Lab (open-source ArvanCloud integrations used by thousands), Lunato (event pipelines/webhooks), MasterTube (video APIs, RBAC, SSE), and freelance backend development.

Education & Leadership

B.Sc. Computer Software Engineering | Islamic Azad University (2019–2023)

Open source & Languages: 10+ packages including django-multi-level-alerts; conference speaker on caching strategies (2023). Languages: Persian (native), English (professional working), Turkish (learning).