

Konstantin Ezra Gonciarou's CV

Ezra Gonciarou

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1 Konstantin Ezra Gonciarou

Senior Software Engineer - System Architect

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1.1 📌 Summary

Highly skilled Senior Software Engineer and System Architect with extensive experience in developing scalable, secure, and high-performance systems across diverse industries, including pharmacology, healthcare, energy, and fintech. Proficient in microservices architecture, system modernization, and building end-to-end solutions with robust data integration and advanced monitoring capabilities. Proven track record in delivering GDPR and PCI DSS-compliant platforms for large user bases, optimizing workflows, and enhancing system reliability. Adept at leading teams, planning major releases, and addressing complex technical challenges.

2 Konstantin Ezra Gonciarou

Senior Software Engineer - System Architect

2.1 📁 Professional Experience

2.1.1 Senior Software Engineer / System Architect

Insilico Medicine <https://insilico.com> Pharmacology/Healthcare AI Suite *October 2023 – April 2024* | Remote, Abu Dhabi, UAE GDPR-compliant AI solutions for clinical trial and healthcare analytics across two flagship products. - **Enhanced User Experience & Efficiency:** Designed and implemented features for clinical trial data analysis using proprietary pretrained LLM models. Developed RAG (Retrieval-Augmented Generation) endpoints to enrich query contexts, advanced data representations, and user management features, resulting in a 20%

reduction in administrative workload and improved scalability. - **Infrastructure Modernization:** Migrated deployments from Docker to Kubernetes, improving scalability, runtime control, and release frequency. - **Real-Time Data Integration:** Transitioned backend architecture to leverage a data lake via APIs, delivering faster access to real-time, up-to-date data. - **ETL Pipeline Development:** Built robust ETL pipelines to scrape, transform, and integrate clinical trial data into a data lake. Enhanced AI model retraining accuracy by providing enriched and current datasets. - **AI Prototyping:** Developed a clinical trial site selection prototype using AWS Bedrock, vector databases, and custom data enrichment, optimizing team workflows and project timelines. - **Release Management & Production Monitoring:** Planned, executed, and monitored major product releases, ensuring stable production environments with proactive reporting and issue resolution.

Tech Stack: Python, Go, Django, FastAPI, PostgreSQL, AWS, Kubernetes, Terraform, RabbitMQ, Apache Airflow, Qdrant, GraphQL, gRPC

2.1.2 ****Senior Software Engineer**

Haulogy <https://haulogy.net> Energy Markets Platform *September 2023 – October 2023 | Remote, Belgium* - **Performance Optimization:** Migrated backend processes from Pandas to Polars, achieving faster data interpolation and forecasting for clients.

Tech Stack: Python, FastAPI, PostgreSQL, AWS, Kubernetes, Terraform

2.1.3 **Senior Software Engineer**

Inplat / Nexign <https://nexign.com> PCI DSS-compliant payment platform *September 2018 – November 2023 | Remote, Dubai, UAE* Developed scalable, secure, and high-performance payment platforms for large user bases, leveraging expertise in microservices architecture, system modernization, and third-party integrations. Delivered PCI DSS-compliant solutions while enhancing system reliability through innovative payment features, seamless integrations, and robust monitoring tools.

- **Service-Oriented Design:** Architected a microservices-based own payment platform with event-driven communication for core payment operations and asynchronous tasks.
- **Scalable Payment Platform for 20M+ Users:** Designed and launched a PCI DSS-compliant payment solution for web and mobile users, supporting money transfers, marketplace purchases, wallets, tokenized payments (Google/Apple Pay), linked bank cards, recurring payments, installments, and bonus systems. Designed APIs for internal service communication, developed service components to integrate with client applications, and implemented social network authorization workflows.
- **Legacy System Modernization:** Migrated legacy systems (Tornado/PHP) to FastAPI, significantly improving performance, scalability, and maintainability.
- **Secure Monitoring & Troubleshooting:** Developed a tracing component for structured logging and issue tracking, ensuring sensitive data remained

secure during debugging and monitoring. Investigated and resolved payment process issues, ensuring high system reliability.

- **Third-Party Integrations:** Integrated retail fiscal APIs, mobile operator SMS services, user consent workflows via SMS, and tokenized card processing systems.

Tech Stack: Python (FastAPI, Tornado, AioHTTP, SQLAlchemy, Celery), Go, Rust, PHP, PostgreSQL, RabbitMQ, Kafka, Kubernetes, Grafana, Jaeger, GraphQL, gRPC

2.1.4 Team Lead - Senior Frontend Developer

Progreedis <http://www.progreedis.ru> *September 2015 – July 2018 | Moscow, Russia* - **Team Leadership:** Managed a team of 7 developers, establishing efficient workflows. - **Frontend Modernization:** Redeveloped a document management system using React, replacing the Backbone-based implementation. - **Dynamic Form Processing:** Created Role/State-based dynamic forms using server-generated schemas.

Tech Stack: TypeScript, React, Java, PostgreSQL, MySQL, GraphQL

2.1.5 Previous Work Experience Highlights

- Built a user moderation platform for a high-traffic news site (React/Django).
 - Designed trade statistics and user verification systems for a Bitcoin marketplace (Django/MySQL).
 - Developed a vector-based semantic news feed attribution system for a national news portal (Java/Node.js).
 - Launched an off-market stock trading system via a desktop messenger (C++).
 - Led data migration and ETL process development for a major bank (Python/SQL).
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2.2 🎯 Skills

- **Architecture & Design:** Microservices, Event-Driven Design, Scalable Systems
- **Backend Development:** Python (FastAPI, Django, Tornado), Go, Rust, TypeScript
- **Data Integration:** ETL Pipelines, Data Lakes, Polars, PostgreSQL, Qdrant, Clickhouse, MongoDB, Redis, Kafka, RabbitMQ
- **DevOps & Infrastructure:** Kubernetes, Docker, AWS, Terraform, ArgoCD
- **AI & Machine Learning:** LLMs, RAG Endpoints, Vector Databases, AWS Bedrock
- **Monitoring & Debugging:** Grafana, Jaeger, Tracing, Secure Logging
- **Frontend Development:** React, TypeScript
- **Team Leadership & Collaboration:** Team Management, Cross-Functional Coordination, Agile Methodologies
- **Integrations:** GraphQL, gRPC, Tokenized Payments (Google/Apple Pay), Social Network APIs

2.3 Education

2.3.1 Master of Law

University of International Relationships, Moscow
Graduated: May 2005

2.4 Contact

Feel free to reach out via any:

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