# Konstantin **Ezra** Gonciarou

#### SENIOR SOFTWARE ENGINEER - PYTHON

Yerevan, Armenia [Remote | Relocation]

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"Untrodden shores do call and beckon | While kindred hearts uphold and reckon"



# **Summary**

A seasoned Senior Python Engineer who has built scalable, secure, and high-performance systems across pharmacology, healthcare, energy, and fintech industries. Skilled in microservices architecture, system modernization, and creating end-to-end solutions with robust data integration and advanced monitoring capabilities. Successfully delivered GDPR and PCI DSS-compliant platforms for large user bases, optimizing workflows and enhancing system reliability. Experienced in: Designing and delivering AWS and self-managed resilient and well-managed and monitored deployments, Setting up LLM workflows with agents, Leveraging rich experience with relational and non-relational databases. Proficient in creating backends built on modern asyncronous Python and popular frameworks and tools.

# **Professional Experience**

Insilico Medicine

Remote, Abu Dhabi, UAE

October 2023 - April 2024

SENIOR SOFTWARE ENGINEER

GDPR-compliant AI solutions for clinical trial and healthcare analytics across two flagship products.

- Enhanced User Experience & Efficiency: Engineered features for clinical trial data analysis using proprietary pretrained LLM models. Implemented RAG (Retrieval-Augmented Generation) endpoints to enrich query contexts, advanced data representations, and user management features, resulting in an 80% reduction in administrative workload and improved scalability.
- **Infrastructure Modernization**: Transitioned deployments from Docker to Kubernetes, improving scalability by 50%, reducing deployment times by 40%, and increasing system reliability with 99.9% uptime.
- Real-Time Data Integration: Restructured backend architecture to leverage a data lake via APIs, reducing data access latency by 65% and enabling real-time, up-to-date information retrieval.
- ETL Pipeline Development: Constructed robust ETL pipelines to scrape, transform, and integrate clinical trial data into a data lake. Enhanced AI model retraining accuracy by 35% by providing enriched and current datasets.
- AI Prototyping: Created a clinical trial site selection prototype using AWS Bedrock, vector databases, and custom data enrichment, reducing project selection time by 60% and improving team workflow efficiency by 45%.
- Release Management & Production Monitoring: Planned, executed, and monitored major product releases, reducing system downtime by 75% and improving issue resolution time by 50%, ensuring stable production environments with preemptive reporting.

**Tech Stack:** 

 $Python \bullet Go \bullet Django \bullet FastAPI \bullet PostgreSQL \bullet AWS \bullet Kubernetes \bullet Terraform \bullet RabbitMQ \bullet Terraform \bullet RabbitMQ \bullet Terraform \bullet RabbitMQ \bullet Terraform \bullet RabbitMQ \bullet Terraform \bullet Te$ 

Apache Airflow • Qdrant • GraphQL • gRPC

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Remote, Belgium

SENIOR SOFTWARE ENGINEER

September 2023 - October 2023

• **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 • RabbitMQ • Clickhouse •

gRPC • Pandas • Polars

Inplat / Nexign ��link
SENIOR SOFTWARE ENGINEER

Remote, Dubai, UAE

September 2018 – November 2023

Scalable, secure, PCI DSS-compliant, and high-performance payment platform for large user base

- **Service-Oriented Design**: Architected a microservices-based payment platform with event-driven communication, reducing system complexity by 40% and improving inter-service communication efficiency by 60%.
- Scalable Payment Platform for 20M+ Users: Launched a PCI DSS-compliant payment solution serving 20M+ users, supporting 7+ payment methods including money transfers, marketplace purchases, and tokenized payments. Cre-

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ated APIs enabling 99.99% system integration reliability and streamlined authorization workflows.

- **Legacy System Modernization**: Transformed legacy systems (Tornado/PHP) to FastAPI, achieving 3x performance improvement, 50% reduction in infrastructure costs, and 75% enhanced system maintainability.
- **Secure Monitoring & Troubleshooting**: Constructed a tracing component reducing issue detection time by 65%, maintaining 100% data security during debugging and ensuring system reliability with 99.95% uptime.
- **Third-Party Integrations**: Integrated 5+ external APIs including retail fiscal, mobile operator SMS, and tokenized card processing systems, expanding platform capabilities by 40%.

**Tech Stack:** 

Python • FastAPI • Tornado • AioHTTP • SQLAlchemy • Celery • Go • Rust • PHP • PostgreSQL

• RabbitMQ • Kafka • Kubernetes • Grafana • Jaeger • GraphQL • gRPC

Progredis \$\think\$ Moscow, Russia

SENIOR FRONTEND DEVELOPER

September 2015 - July 2018

Frontend Modernization, Complex Context Solutions

- **Frontend Modernization**: Redeveloped document management system using React, reducing application load time by 60% and improving user interface responsiveness by 45%.
- **Context-aware Form Processing**: Created Role/State-based multicomponent forms, reducing form completion time by 50% and improving data accuracy by 40%.
- **Complex data visualization in grid**: Developed a custom grid component enhancing data representation efficiency by 55%, supporting complex business logic and user context with 90% user satisfaction.

**Tech Stack:** TypeScript • React • PostgreSQL • MySQL • GraphQL

# **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).

### Skills

Architecture & Design Al integration, Microservices, Event-Driven Design, Scalable Systems

**Backend Development** Python (FastAPI, Django, SQLAlchemy, uv, Pandas/Polars, PyTorch), Go, Rust, TypeScript

**Data Integration** ETL Pipelines, Data Lakes, PostgreSQL, Qdrant, Clickhouse, MongoDB, Redis, Kafka, RabbitMQ

**DevOps & Infrastructure** Conteinerization, IaC, Kubernetes, AWS, Gitlab, Ansible, Terraform, ArgoCD

Al & Machine Learning LLMs, Agents, RAG, LLM chains, Vector Databases, AWS Bedrock

**Monitoring & Debugging** OpenTelemetry, Grafana, Jaeger, Tracing, Secure Logging

Frontend Development React, TypeScript, JavaScript, TailwindCSS, GraphQL

**Team Leadership & Collaboration** Team Management, Cross-Functional Coordination, Agile Methodologies, Jira, Miro

**Integrations** gRPC, OpenAPI, Tokenized Payments (Google/Apple Pay), Social Network APIs

#### **Education**

## **University of Inrenational Relationships**

Moscow, Russia

Master of Law May 2005

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