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 link

Remote, Abu Dhabi, UAE

Senior Software Engineer

October 2023 – April 2024

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 • Go • Django • FastAPI • PostgreSQL • AWS • Kubernetes • Terraform • RabbitMQ • Apache Airflow • Qdrant • GraphQL • gRPC

Haulogy link

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

Remote, Dubai, UAE

Senior Software Engineer

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-

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 *link* — *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	AI 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
AI & 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*