

Tigran Kostandyan

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SUMMARY

Software engineer based in Yerevan, Armenia with 8 years of experience building high-scale, real-time, and data-intensive systems across fintech, infra, and AI-driven tooling. Founding engineer in multiple startups (Rent.app & Property.app), designed high-throughput payment and compliance systems, and worked at Datafold on an AI-assisted SQL transpiler used by enterprise customers.

SKILLS

Languages & Frameworks	Python, Golang, Node.js, FastAPI, Django, Flask, Asyncio, Express.js, Fastify, Nest.js
Datstores/Databases	PostgreSQL, Redis, MongoDB, ClickHouse, MySQL, Snowflake, Redshift, SAP HANA
Messaging	Celery, RabbitMQ, Kafka
Cloud & Infra	AWS (S3, Lambda, RDS, EKS, ECS, Fargate), Docker, Kubernetes, Terraform, GitHub Actions, Gitlab CI, ArgoCD, Kustomize, Nginx
Observability	Grafana, Prometheus, OpenTelemetry, Datadog, PagerDuty, Loki
Domain expertise	Payment processing, ACH/card networks, AML/Fraud detection, ETL systems, real-time services

WORK EXPERIENCE

Senior Software Engineer – Datafold (Remote)

June 2025 – Present

Datafold builds a reliability toolkit for data engineers – with tools for automated diffing, cross-database validation, lineage, and CI for data. Worked on AI-powered SQL migration platform, enabling enterprise customers to migrate safely and automatically.

- Delivered a production SAP HANA → Databricks migration for an enterprise client under a strict year-end deadline.
- Built core components of a SQL transpilation engine supporting complex OLAP queries and HANA-specific syntax.
- Designed bulk data transfer workflows (S3 + Parquet + Databricks COPY INTO) to migrate and validate tables with billions of rows.
- Added validation and safety checks to ensure correctness of AI-generated SQL before execution on large datasets.
- *Stack: Python, FastAPI, Docker, Kubernetes, GitHub Actions, AWS (S3, Bedrock), Redis*

Founding Software Engineer – Rent.app, Property.app (Remote)

Jan 2023 – June 2025

One of the first founding engineers, responsible for building platform infrastructure from the ground up. Rent.app processes secure rent payments; Property.app helps property owners manage and monetize real estate assets.

- Scaled the platform from zero to thousands of users, supporting approximately \$10M in annual payment volume under strict banking and regulatory compliance requirements.
- Led integration of the first banking provider, designing secure payment processing workflows, reconciliation logic, and failure-handling mechanisms.
- Designed and operated distributed background processing architecture (Celery + Redis) handling pay-

ment execution, AML checks, fraud detection, and other asynchronous workflows.

- Introduced reliability improvements in task orchestration (retry policies, failure handling, worker coordination) to ensure consistent processing during deployments and restarts.
- Architected and hardened CI/CD pipelines for backend and mobile releases, automating versioning, release notes, and publication to reduce manual overhead and improve deployment safety.
- Reduced hotfix turnaround time by approximately 60% by automating release creation/deploy flows and adding pre-production validation and safety checks.
- Integrated production observability stack (Datadog, PagerDuty), strengthening monitoring, alerting, and incident response processes.
- *Stack: Kubernetes (EKS), Kustomize, ArgoCD, Terraform, GitHub Actions, Datadog, PagerDuty, AWS, Python, FastAPI, PostgreSQL, Redis, Celery, Typescript, React, Next.js*

Senior Backend Engineer – Improvado (Remote, contract)

Sept 2022 – Jan 2023

Improvado is a data aggregation and analytics platform that helps businesses streamline their marketing data by automating the process of collecting, transforming, and visualizing data from multiple sources.

- Designed and implemented high-throughput data pipelines to aggregate and normalize large datasets
- Optimized ETL processes to ensure high performance, reliability, and scalability of data transfers
- Managed and maintained databases, ensuring data consistency and integrity
- Set up CI/CD for various microservices and migrated old ones from Jenkins to Github Actions
- *Stack: Python, Django, FastAPI, Asyncio, PostgreSQL, Redis, RabbitMQ, Snowflake, RedShift, MySQL, ClickHouse, Docker, Kubernetes, Jenkins, Github Actions*

Early Career Projects / Freelance & Fullstack Roles (Remote)

July 2018 – Sept 2022

- **pro.rbc.ru** – Media platform providing trends in investment, marketing and management. Built an extensive and reliable mailing system for marketing, led big features in the billing department (promocodes), developed the API (including search) for articles using Elasticsearch
- **Catch (thrilling stories)** – Chat story app with over 1M MAU. Implemented audio stories and podcasts, maintenance work for Erlang/Cowboy app
- **visaoffice.eu** – Visa and consulting services agency. Built the first version alongside CTO, fullstack (Stimulus.js and Django templates)
- *Stack: Python, Typescript, Go, Django, FastAPI, Asyncio, PostgreSQL, Redis, RabbitMQ, Kafka, ELK*

EDUCATION

2018 – 2022 **Bachelor's degree in Applied Mathematics and CS**

Lobachevsky State University – Nizhny Novgorod, Russia

LANGUAGES

Russian	Native
Armenian	Native
English	Advanced