

Mishiko Okropiridze

Back-end Engineer, Tbilisi, Georgia

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SUMMARY

Mishiko is a backend engineer with over 9 years of commercial experience across Python, Django, Go, PostgreSQL, and distributed backend systems, with a focus on system architecture, APIs, automation, and infrastructure.

Brings hands-on experience in taking backend systems from design to production, with a focus on reliability, performance, and maintainability. Combines technical leadership with ownership of architecture and software delivery.

EXPERIENCE

- **CueGrowth** Remote
2021 – Present
Back-end Engineer
CueGrowth develops software for lead research, enrichment, filtering, and GTM automation.
 - **Software Architecture:** Architected and redesigned the platform from monolithic to microservices architecture; led technical decisions for system design, service boundaries, and technology stack selection.
 - **Back-end Development:** Implemented and scaled Django REST APIs and Go microservices for performance-critical components.
 - **AI Services:** Built FastAPI-based services for web-grounded lead enrichment, natural-language filtering, structured data extraction, and personalized outreach using Google Gemini and Pydantic-validated outputs.
 - **Research & Sales Agents:** Developed PydanticAI agents with streaming chat, conversation memory, and dynamic tool discovery to research leads and orchestrate enrichment, filtering, messaging, and CRM workflows.
 - **AI Tooling:** Built FastMCP-based internal tools; deployed and integrated OpenWebUI and OpenTerminal into internal AI workflows. Used Claude Code, Codex, and Pi for AI-assisted development.
 - **Automation & Task Orchestration:** Built in-house task manager and intelligent task distribution system that orchestrates workflow execution across atomic workers written in Go and Express.js; routes tasks through SQS or the outbox pattern based on execution requirements. Implemented atomic workers that handle browser automation through Express.js microservices running Selenium and computational tasks through Go workers; designed priority-based scheduling and fault-tolerant task retry mechanisms. Migrated automation layer from custom EC2-based solution to Kubernetes-based Selenium Grid with custom controller written in Go; massively reduced infrastructure costs while decreasing workforce needed to maintain the old automation layer.
 - **Infrastructure & DevOps:** Migrated infrastructure to Kubernetes; developed Ansible framework to manage Kubernetes clusters for deployment, configuration management, and orchestration.
 - **CI/CD & Deployment:** Configured and maintained CI/CD pipelines; managed container orchestration for scalable and reliable deployments across environments.
 - **Database Management:** Migrated from MySQL RDS to self-hosted Autbase PostgreSQL, cutting DB costs by 45% and improving query performance up to 30%; optimized complex queries across MySQL and PostgreSQL databases.
 - **Monitoring & Observability:** Set up comprehensive monitoring stack with Grafana, Prometheus, and Loki to identify and resolve system bottlenecks; improved overall system performance through data optimization and query tuning.
 - **Quality & Stability:** Improved code quality through comprehensive testing, type-hinting conventions, and code reviews; enhanced system stability and maintainability.
 - **Tech Stack:** Python, Go, Django, DRF, FastAPI, PydanticAI, FastMCP, Google Gemini, Vertex AI, Node.js, Express.js, MySQL, PostgreSQL, Django Channels, Celery, Redis, Selenium Grid, N8N, AWS, Kubernetes, Ansible, Serverless Framework.
- **Toptal** Remote
2021 – 2023
Core Developer
 - **ThoughtLeaders**
A dynamic metrics and aggregation service for ThoughtLeaders, a content intelligence platform. The project extended an existing ELK-stack data ingestion pipeline and delivered a new analytics UI backed by Django and Elasticsearch.
 - * Developed a dynamic metrics and aggregation service backed by Django and Elasticsearch, with a new analytics UI in Vue.

- * Extended the existing ELK-stack data ingestion pipeline.
- * **Tech Stack:** Django, Vue, AngularJS, Elasticsearch, Logstash, Kibana, PostgreSQL, Docker, Heroku.

◦ **NousAI**

A data pipeline ingestion and orchestration system for Nous Technologies, enabling reliable data processing and monitoring. The project integrated object storage and added analytics and task-monitoring tooling.

- * Implemented ingestion and task orchestration with Django, Celery, and Redis.
- * Integrated MinIO object storage with a custom Django storage backend.
- * Added Metabase and Celery Flower for analytics and task monitoring.
- * **Tech Stack:** Django, Celery, Redis, MinIO, Metabase.

◦ **CyberSPF**

An MVP security alerting web application for Trontech Inc. that detects threats based on database record changes. The solution incorporated smart change-detection logic, caching, and a migration to publicly available records to reduce third-party service costs.

- * Built an MVP with change-detection logic to avoid false threat alerts.
- * Added caching and migrated to publicly available records to reduce third-party service costs.
- * **Tech Stack:** Django, DRF, AWS, React, Redis.

● **GRAEY**

On site / Tbilisi, Georgia

Lead Back-end Engineer

2019 – 2021

GRAEY is a custom B2B design and software development firm headquartered in Tbilisi, Georgia, specializing in web development, UX/UI design, and Python. Graey delivered software products including e-commerce systems and technical education initiatives.

◦ **The Contract Chair**

A fully custom e-commerce platform for The Contract Chair, a furniture retailer, featuring an in-house CMS and real-time 3D furniture customisation. The platform automated product imports from multiple suppliers and integrated with leading CRM systems.

- * Built a fully custom e-commerce platform with an in-house CMS and real-time 3D furniture customisation, allowing customers to preview personalised configurations before ordering.
- * Automated product imports from multiple furniture suppliers.
- * Optimized queries, implemented caching strategies, and refactored codebase following SOLID principles and modern design patterns.
- * Integrated with Salesforce and HubSpot CRM, dockerized services, and established CI/CD pipelines.
- * **Tech Stack:** Django, PostgreSQL, Redis, Docker, Salesforce, HubSpot.

◦ **Graey Education**

Graey Education is a free Python and Django course.

- * Created free coursework in Django/Python and lectured more than 100 people.
- * Taught fundamentals of Python with in-depth analysis of meta-programming, OOP concepts, and software design patterns.
- * Many students started software engineering jobs after completing the course.

OPEN SOURCE CONTRIBUTIONS

- **whoisit:** Enhanced RDAP contact-data extraction in the whoisit Python library and strengthened parser reliability with targeted tests.
- **check-if-email-exists:** Added SOCKS5 proxy authentication for API checks in the check-if-email-exists Rust library.
- **djangoestframework-stubs:** Improved type hints for Django REST Framework stubs.
- **Vim:** Contributed Georgian keyboard layout mappings to Vim.
- **noVNC:** Identified and reported issue with browser stealing keyboard events in remote desktop sessions.
- **AdaptedMap:** Independent hackathon project awarded 1st place by GITA; concept for an adapted map application.
- **Graey Education:** Open sourced complete Django/Python course materials used to teach 100+ students.

EDUCATION

- **Tbilisi State University** Tbilisi, Georgia
Master of Science in Mathematics *2022 – 2024*
 - Defended Master's Thesis: "On Quasi-reducibility"
- **Tbilisi State University** Tbilisi, Georgia
Bachelor of Science in Mathematics, Minor - Computer Science *2018 – 2022*
 - Graduated with Honors

CERTIFICATIONS

- **Hackathon, GITA:** 1st place, August 2021. Awarded for the concept behind AdaptedMap.
- **Machine Learning and Deep Learning, MaxinAI:** July 2020
- **International Students Olympiad MathOpen Belarus 2020:** Participant, Feb. 2020
- **Machine Learning, International Black Sea University:** Oct. 2019
- **iOS App Development, GITA:** July 2017
- **Python Programming, GITA:** Jan. 2017

TECHNICAL SKILLS

- **Languages:** Python, Go, TypeScript, JavaScript
- **Backend:** Django, Django REST Framework, Node.js, Express.js, Celery, Selenium, MinIO
- **DevOps:** Docker, Kubernetes, Ansible, Heroku, GitHub Actions
- **Cloud:** AWS, OVH, Hetzner, DigitalOcean
- **Databases:** PostgreSQL, MySQL, Elasticsearch, MongoDB, Redis, RabbitMQ
- **Monitoring:** Grafana, Prometheus, Loki, Kibana, Metabase