Yauheni Amialchuk - Python Engineer

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Python Engineer with 5 years of experience, possessing practical expertise in a wide range of frameworks and libraries within the Python ecosystem. Deeply immerse myself in project business logic, enabling not only high-quality task implementation but also proposing solutions that directly impact results. Possess strong analytical skills, a systematic approach to problem-solving, and experience in optimizing the performance of high-load systems. Have a successful track record across various domains: from fintech services to analytical platforms.

TECHNICAL SKILLS

Technologies and Tools: Python, Go, SQL, JavaScript, Asyncio, Clickhouse, Postregsql (Postgis), Redis, Kafka, RabbitMQ, JSON-rpc, AWS (Lambda, EC2, DynamoDB, CloudFormation, CloudWatch, S3, SQS, EventBridge), Jenkins, GitLab CI/CD, GitHub Actions, Docker, GIT, Linux, Geoserver.

Frameworks and Libraries: Aiohttp, Django, Django REST Framework, Django-silk, FastAPI, Twisted, Celery, SQLAlchemy, Alembic, Tortoise, Gino, Multiprocessing, Aiochclient, Aiokafka, kafka-python, Boto3, Channels, Openpyxl, Pandas, Pytest, Unittests.

RELEVANT EXPERIENCE

Magify LTD | Minsk, Belarus **Jan. 2024 - Present**

Magify: Game Analytics & LiveOPS

- Designed and implemented a login/password authentication system and an email invitation mechanism with organization creation. This attracted users without Google accounts, expanding the project's target audience by 40%.
- Executed a full-scale rebuild of the authorization system, redesigning the model for permissions, groups, roles, and scopes. The result was a scalable and secure access system that reduced the risks of unauthorized actions and simplified user management.
- Designed and implemented a sandbox environment affecting 6 microservices. This allowed clients to safely test configurations, leading to a 30% reduction in production incidents.
- Carried out a comprehensive tech stack upgrade for 6 services: migrated from Python 3.9 to 3.13, audited dependencies, and replaced GINO with full-featured SQLAlchemy using asyncpg. As a result, database query performance improved by 15%, and the codebase became modern and maintainable.
- Actively participated in the full development lifecycle: third-party API integration, critical bug fixes, new feature implementation, code review, and production deployments.

EPAM Systems | Tbilisi, Georgia **Aug. 2022 - Jan. 2024**

Nike: Partnerhub Team

- Contributed to the development of a portal for end-to-end automation of partner onboarding into the Nike ecosystem. The system managed multiple ETL data pipelines, eliminating manual operations and accelerating the integration process.
- Designed and implemented a serverless backend architecture based on AWS Lambda, ensuring high scalability and fault tolerance. Successfully defended the chosen architecture before the team, justifying the benefits of the serverless approach for the project's business objectives.
- Integrated key AWS services: SQS for task queue management, DynamoDB for data storage, and EventBridge for event orchestration between services, creating a cohesive and reliable system.
- Implemented a secure authorization mechanism via OAuth 2.0, providing partners with protected access to the portal and Nike's services.

- Actively participated in the full development lifecycle: integration with internal and external APIs, critical bug fixes, new feature implementation, code review, and production deployments.

Novartis Institutes for BioMedical Research

- Designed the architecture and developed key components of a multi-cloud, multi-architecture Cloud OS image build platform from scratch, successfully deploying the solution to production.
- Initiated the technology stack selection process and directly collaborated with the customer to gather and align requirements, ensuring technical solutions met business objectives.
- Delivered a fully-featured product that transitioned into long-term support and operates reliably in the production environment, demonstrating its robustness.
- Integrated linters and implemented unit tests, achieving approximately 80% code coverage, which significantly enhanced code quality and reduced regression issues.

SolbegSoft | Minsk, Belarus **June 2021 - Aug. 2022**

Payment Center

- Designed and implemented a Yandex Pay integration from scratch into the high-load payment system by creating a fault-tolerant microservice. This solution helped attract new audiences and expand the range of payment methods, directly impacting conversion rates and customer base growth.
- Mastered Go for developing high-performance microservices, significantly accelerating the development and deployment cycles for new third-party provider integrations. This increased platform flexibility and reduced time-to-market for new payment options.
- Identified and fixed a critical defect in a custom library for enabling async operations in Celery, which was causing incorrect notification delivery. The fix ensured 100% delivery of valid notifications to customers, enhancing service reliability and user satisfaction.

Renovation App

- Executed a comprehensive backend performance optimization, reducing response times for the slowest endpoints from 2 minutes to 600 ms, significantly improving application responsiveness and user satisfaction.
- Conducted a deep audit and refactoring of SQL queries generated by Django ORM. Rewrote the most resource-intensive queries, which substantially reduced database load and eliminated key performance bottlenecks.
- Consolidated the API by reducing redundant endpoints through merging and optimization, simplifying the architecture and improving code maintainability.
- Identified and resolved a number of critical bugs that were blocking key application use cases, stabilizing system operation prior to release.
- As a result of these efforts, successfully steered the project away from a crisis state and delivered a stable, high-performance application to production that met all business requirements.

RUE Belgosles | Minsk, Belarus **May 2017 - June 2021**

Mgisles Backend

- Designed and developed the backend and admin panel for a mobile application from scratch, independently gathering requirements to create a comprehensive user management system for staff.
- Deployed and configured the application on company-owned servers, ensuring full operational control and stable performance.
- Created user documentation and conducted training sessions for internal teams, enabling smooth adoption and effective daily use of the system.

EDUCATION

Belarusian State University of Informatics and Radioelectronics | Minsk, Belarus **Sep. 2012 - Aug. 2017**

Faculty of Radioengineering and Electronics | Radioelectronic data protection