DMYTRO KOVALENKO

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SUMMARY

Python Backend Developer with nearly 4 years of experience optimizing high-load systems and building scalable APIs. I bring a pragmatic approach to software design, focusing on solutions that solve real business needs efficiently. Committed to writing clean, maintainable code that delivers measurable value.

SKILLS

Frameworks	FastAPI, Flask, SQLAlchemy, AsyncIO, Pytest, Taskiq, FastStream
Cloud	AWS (RDS, S3, EC2, CodePipeline, CloudWatch)
Databases	PostgreSQL, Redis, MongoDB
Other	RabbitMQ, Grafana, Prometheus, Github Actions

EXPERIENCE

Backend Software Developer Jul 2023 - Present
NAGLYAD *Remote*

- Led the end-to-end engineering of a B2B SaaS platform, translating raw business concepts into strict API contracts and guiding Frontend/Design teams.
- Architected a fault-tolerant fiscalization engine for **automated tax reporting**, utilizing a background recovery strategy to ensure zero data loss.
- Co-designed an event-driven IoT pipeline via MQTT including firmware API, processing telemetry data from remote devices with **sub-second latency**.
- Orchestrated complex background reporting workflows using **Taskiq**, processing large volumes of telemetry data without blocking main API threads.
- Optimized critical endpoints by implementing Redis caching and tuning SQL indexes, reducing p99 latency by **35%** and lowering PostgreSQL load by **55%**.
- Implemented granular RBAC to enforce strict security policies, ensuring **100% compliance** with access control requirements.

Backend Software Developer Jun 2022 - Jun 2023
Come Back Agency *Remote*

- Translated high-level business requirements into actionable technical specifications through close collaboration with Product Managers.
- Refactored legacy monolithic modules into Clean Architecture, significantly improving testability and reducing technical debt.
- Built an OCR-powered receipt parsing module, automating data entry and saving end-users an estimated **7 minutes per transaction**.
- Established a robust CI/CD pipeline via GitHub Actions with automated quality gates (Ruff, Pytest), cutting deployment time to **under 5 minutes** and ensuring codebase stability.
- Integrated PayPal and DocuSign workflows, automating the billing lifecycle and reducing manual subscription errors by **95%**.
- Optimized SQL queries via SQLAlchemy ORM to resolve N+1 problems and improve general data retrieval speed by **30%**.

Backend Intern Apr 2022 - Jun 2022
MindCode *Remote*

- Developed RESTful APIs and backend tools under senior mentorship.
- Maintained code reliability by writing automated tests with Pytest, achieving **80% coverage**.
- Secured API endpoints by implementing JWT authentication and rate limiting middleware.

LANGUAGES

English: B2 | **Polish**: B2 | **Ukrainian**: Native