

Kateryna Oblakevych

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Senior Software Engineer | Backend, Distributed Systems & AI-Powered Products

I have 7+ years of experience building distributed services, APIs, and cloud-based platforms across enterprise compliance, localization, and workflow automation domains. Strong in Java, Go, Python, event-driven systems, production reliability, and API design. Recent work includes backend integrations for LLM/VLM-powered document processing and AI-assisted investigation workflows at Microsoft.

SKILLS

Languages: Java, GoLang, Python, JavaScript, TypeScript

Backend: REST APIs, GraphQL, Microservices, Distributed Systems, Spring Boot, Event-Driven Architecture, System Design, Kafka, RabbitMQ

Infrastructure: AWS, Azure, Docker, Kubernetes, ECS, Serverless, CI/CD Pipelines

AI/ML: LLM/VLM Integrations, Spec-Driven Development, RAG

Storage: PostgreSQL, Oracle, Redis, S3-Compatible Object Storage, DynamoDB, Flyway, Liquibase

Reliability: Prometheus, Grafana, Elasticsearch, Kibana, Structured Logging, Incident Triage, Production Support

Security: OAuth2, JWT, API Security, Secrets Management, Vault, OWASP Top 10

Testing: JUnit, Mockito, Unit Testing, Integration Testing, SonarQube, Test Automation

EXPERIENCE

Senior Software Engineer

Feb 2025 – Present

Microsoft

Redmond, WA

- Integrated backend services with LLM/VLM document-analysis pipelines for classification, entity extraction, and review workflows within enterprise compliance investigation systems.
- Built API contracts and validation layers for model-generated outputs, improving downstream processing consistency across 6+ distributed services by 15%.
- Added observability for AI-assisted workflows, including model-response diagnostics, failure classification, tracing, and pipeline-level investigation signals, reducing incident resolution time by 40%.
- Expanded automated test coverage for backend APIs and processing pipelines, reducing production regressions by 20%.
- Partnered with product, security, and platform teams to harden service integrations across environments and improve deployment reliability.
- Drove cross-service debugging and incident triage across backend, platform, and product teams, improving reliability of distributed compliance systems.

Senior Software Engineer

Aug 2023 – Jan 2025

Crowdin

Tallinn, Estonia

- Led end-to-end design of a multilingual project-management feature used across thousands of active customer projects, reducing language-switching friction by 40%.
- Built and maintained backend services for localization workflows involving file processing, project metadata, language-specific behavior, and customer-facing APIs.
- Designed event-driven file-processing pipelines using S3-compatible object storage and serverless compute for high-volume customer uploads, reducing infrastructure costs by \$10K/month while improving processing scalability.
- Improved high-traffic API latency by approximately 25% through caching, database query optimization, and load-distribution improvements.
- Standardized OAuth2-based authentication and authorization across backend APIs, reducing permission inconsistencies and security edge cases.
- Improved CI/CD pipelines for weekly zero-downtime releases, faster rollback, and more predictable deployments.

Software Engineer

Aug 2020 – Aug 2023

Sigma Software

Kyiv, Ukraine

- Designed and deployed 5+ Java/Spring Boot microservices for distributed production systems, improving scalability and reducing service downtime by 50%.

- Built backend APIs, service integrations, and asynchronous processing flows for customer-facing and internal enterprise systems.
- Reduced production defects by approximately 30% over multiple release cycles by expanding unit and integration test coverage.
- Implemented standardized JWT-based authentication across microservices, improving service-to-service authorization consistency and data protection.

Java Mentor

Nov 2022 – Jan 2023

*Hillel IT School**Kyiv, Ukraine*

- Mentored 50+ students in Java backend development through code reviews, debugging support, technical Q&A, and practical guidance on backend engineering practices.

Golang Intern

Jun 2020 – Sep 2020

*Readdle**Kyiv, Ukraine*

- Built a Go-based integration with Google Calendar, improving integration efficiency and API response handling.

EDUCATION

Odesa National Polytechnic University

Odesa, Ukraine

*Master's degree in Computer Science**Sep 2016 – Dec 2021*