

# Karlo Delalic

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## Experience

### Adobe

San Francisco Bay Area

SOFTWARE ENGINEER

Nov. 2020 - Present

- Developed scalable Kotlin and Java services powering Adobe Aero, the Content Platform, and the Commerce Platform, with a focus on high availability, cost efficiency, and fault tolerance across multi-cloud environments.
- Led the design and implementation of a queue-based BlobStore garbage collection service, reducing storage costs and improving system reliability across cloud regions.
- Drove the delivery of the “Copy Blob by ID” feature with AWS and Azure cross-region support, enabling faster blob replication and improving overall system throughput.
- Optimized cloud spend by auditing and decommissioning unused infrastructure and services across teams, resulting in measurable operational cost savings.
- Built an LLM-powered feature flag cleanup bot that automatically removes stale flags from codebases using a Renovate-style dashboard, reducing technical debt and simplifying configuration management.
- Led the migration from Splunk to Prometheus and Alertmanager for metrics and alerting; evangelized adoption across engineering orgs by hosting knowledge sharing sessions, and creating onboarding documentation.
- Reduced PR test suite execution times by over 50% and improved CI reliability through targeted test optimization, resulting in faster iteration loops and higher developer productivity.
- Influenced external partner teams to improve resiliency and reduce error rates by identifying integration weaknesses and proposing robust solutions, significantly reducing order loss during high-traffic events.
- Partnered with external teams to decouple payment logic from the ordering pipeline, simplifying future integrations with payment methods and improving the maintainability of the ordering system.
- Led critical contributions to high-impact initiatives including B2C Stack Unification, B2B Switch Plan, and B2B Self-Cancel, resolving cross-team dependencies and delivering features that contributed to millions in revenue.
- Led the migration of multiple high-throughput services from Cassandra to DynamoDB, improving scalability, operational simplicity, and overall service reliability.
- Developed an automated cross-system cache invalidation mechanism triggered by tax or country configuration changes, eliminating manual processes and ensuring data consistency across services.
- Mentored and onboarded engineers by creating comprehensive documentation, leading design walkthroughs, and sharing domain-specific best practices across teams.

### IBM

Markham, Ontario, Canada

SOFTWARE ENGINEER INTERN

May 2018 - April 2020 (24 months)

- Designed and developed a NodeJS CLI tool that scans a project’s open source dependencies and generates a report for review by the legal team. Reduced an entirely manual effort to a single automated Jenkins cron job.
- Developed an automated E2E regression testing suite capable of running multiple types of tests such as Selenium WebDriver, AVA, and JUnit on TravisCI. Reduced the number of regressions by 50%.
- Implemented gRPC and Go microservices within a crucial data pipeline for Guardium Insights.
- Leveraged ReactJS, AngularJS, and NodeJS to develop responsive components and features for the Guardium Insights frontend.

## Education

### McMaster University

Hamilton, Ontario, Canada

B.ENG. IN SOFTWARE ENGINEERING

April 2020

## Skills

#### Languages

Java, Python, Golang, Javascript, Kotlin, Bash

#### Databases

Cassandra, MongoDB, DynamoDB, Postgres, Redis

#### Tools & Frameworks

Spring, NodeJS, gRPC, Kafka, Prometheus, ReactJS, AngularJS

#### Cloud

AWS, Azure, Kubernetes, Docker, Argo