# MATTHEW KUZMINSKI

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Senior Software Engineer with 10+ years of experience building large-scale, cloud-native systems. In recent years, expanded into infrastructure and observability engineering, leading major company-wide migrations, modernizing telemetry pipelines, and improving platform reliability and developer experience. Hold a strong foundation in microservices, distributed systems, API architecture, and data-intensive workflows. Experienced with Kubernetes, AWS, GCP, Go, and Python, with the deepest foundational expertise in the Java ecosystem. Recognized for technical ownership, cross-team collaboration, and delivering high-impact improvements across both application and platform layers.

# SKILLS

Languages: Java (expert), Go, Python, TypeScript, Bash, SQL
Backend: Spring Boot, Spring Data, REST/HATEOAS, ETL pipelines
Infrastructure: Kubernetes, Helm, Terraform, Docker, GitOps, Spinnaker, Jenkins
Cloud: AWS, GCP
Observability: Prometheus, Grafana, Loki, StatsD, M3, OpenTelemetry
Data & Messaging: Kafka, RabbitMQ, MySQL, Postgres, SQLite, Redis, Elasticsearch/OpenSearch
Tooling: Liquibase, Maven, Airflow
Operating Systems: Slackware, Arch, Gentoo, Ubuntu, FreeBSD

# EDUCATION

- B.Sc. Computer Science, Toronto Metropolitan University (formerly Ryerson)

# CERTIFICATION

- Google Cloud Professional Cloud Developer - https://www.credly.com/badges/8718fd2e-1b09-4d7c-8223-6c6df109abcd
- Google Cloud Professional Cloud DevOps Engineer - In progress
- Certified Kubernetes Administrator - In progress

# EXPERIENCE

### SENIOR SOFTWARE ENGINEER — INFRASTRUCTURE (OBSERVABILITY)

**LYFT**
2024 — PRESENT

- **Led a company-wide migration of the legacy metrics pipeline to a modern, Prometheus-based architecture,** simplifying telemetry ingestion, improving reliability, and eliminating two sidecar containers per pod. This reduced service and node complexity, improved scheduling efficiency, and generated **~$240K/year in recurring infrastructure savings.**
- **Owned technical design, planning, and phased rollout strategy** for the metrics migration, coordinating with multiple infrastructure, developer tooling, and product teams to ensure a smooth transition and minimal service disruption.
- Resolved complex issues across hundreds of microservices by debugging service code, identifying inconsistent metric usage patterns, and implementing compatibility solutions to ensure uninterrupted telemetry delivery.
- Improved reliability of telemetry ingestion by enhancing support for high-precision or high-throughput workloads and enabling new collection patterns such as pull-based metric ingestion.
- **Architected the company's migration of logging to a new cloud-based observability platform**, producing detailed technical specifications, analyzing large-scale query and usage patterns in the existing system, identifying impacted teams early, and designing an iterative multi-quarter rollout plan.
- Conducted **technical evaluation of observability vendors**, surfacing limitations, performance constraints, and feature gaps.
- Built a proof-of-concept for continuous profiling that enabled multiple service teams to test and evaluate new capabilities.
- Provided strong internal customer support, closing numerous platform support tickets, debugging service-specific observability issues, and offering proactive guidance during major system migrations.
- Mentored new engineers and helped establish onboarding, documentation, and planning practices for the newly formed Observability group, contributing to technical direction, roadmap development, and cross-team collaboration norms.

**Tech stack (abridged):** Go, Python, Kubernetes, AWS (EKS, EC2, CloudWatch, S3), Prometheus, StatsD, M3 (metrics storage), Elasticsearch/OpenSearch, Grafana Cloud, OpenTelemetry, distributed telemetry pipeline technologies, Terraform, Linux

### SENIOR SOFTWARE ENGINEER

**TRANSLUCENT COMPUTING**
2018 — 2024

- Took end-to-end ownership of backend development across multiple enterprise products, designing microservices and distributed systems primarily in **Java/Spring Boot** and deploying them on **Kubernetes**.
- Implemented key architectural components including workflow engines, data pipelines, ETLs, and domain-driven services for fintech and healthcare applications.
- Led modernization efforts across legacy systems: refactored services for scalability, introduced improved database schemas, optimized query performance, and strengthened API design.
- Built infrastructure components and CI/CD automation using **Jenkins**, **Helm**, **Terraform**, **Docker**, and GitOps workflows; maintained dev, staging, and production Kubernetes clusters.
- Designed secure integrations with external partners over REST, SOAP, message queues, and file-based protocols (SFTP/FTPS), including work with financial institutions, identity verification providers, and document-signing systems.
- Improved system observability by implementing structured logging, custom application metrics, and dashboards using **Prometheus**, **Grafana**, **Loki**, and **Elasticsearch**/**OpenSearch**.

- Contributed to operations and reliability by resolving production incidents, optimizing service performance, and mentoring junior engineers in debugging and distributed-system best practices.
- Owned requirements, architecture, and delivery for multiple backend systems, effectively serving as both product and technical lead to define features, plan iterations, and ship reliable, test-driven solutions.

## KEY PROJECTS

- **Core Platform Libraries (Internal Framework)**
  - Contributed to the company's foundational Java/Spring library ecosystem, refactoring core modules and extending platform capabilities used across multiple enterprise products.
  - Improved data export, file management, and service bootstrapping components; enhanced reliability around database migrations, shutdown behavior, and Kubernetes lifecycle events.
- **Loan Management System (Fintech Platform)**
  - Served as senior backend engineer and later effective technical lead for a large multi-service loan workflow platform built on Kubernetes and Java/Spring.
  - Designed domain-driven services supporting loan creation, qualification, scheduling, and financing, including multi-actor workflows and complex financial calculations.
  - Built integrations with numerous external financial and identity systems (REST, SOAP, SFTP, message queues) and designed resilient data pipelines for partner systems.
  - Contributed to production operations: created new deployment pipelines, improved observability with **Prometheus**/**Grafana** dashboards, and automated dependency management.
  - Supported frontend teams and occasionally contributed to Angular/NGRX components where needed.
- **Loan Reporting (ETL Pipeline)**
  - Designed and implemented a data aggregation pipeline that consolidated data from internal systems and third-party financial APIs.
  - Built short-lived, containerized jobs orchestrated by **Airflow** and deployed to **Kubernetes**, enabling scheduled reporting and analytics for business stakeholders.
- **Healthcare Data Platform (Health Data Aggregation & API)**
  - Developed ETL pipelines to ingest, transform, and normalize patient health records (FHIR) from multiple sources.
  - Built APIs and data models enabling efficient search, granular authorization, and time-series analysis across healthcare datasets.
  - Worked on infrastructure, DevOps, and identity (Keycloak) configuration; improved CI/CD, cluster resources, and system reliability.
- **Vehicle Data Aggregation Platform (Cloud Migration)**
  - Led cloud-readiness modernization and system decomposition, of an existing data aggregation system written in Java, Python, and Bash.
  - Refactored legacy code for portability, introduced batching and performance improvements, and migrated services to AWS compute and storage.
  - Built CI/CD pipelines, established source control and artifact management workflows, and modernized deployment tooling.

**Tech stack (abridged)**: Java (Spring Boot, Hibernate, Liquibase), Kubernetes, Docker, Helm, Spinnaker, Terraform, Jenkins, renovate (automated dependency pipeline tooling), GCP (GKE, Cloud Storage, Cloud Healthcare API), Kafka, RabbitMQ, Elasticsearch/OpenSearch, Dgraph, Redis, MinIO, Keycloak, Python, Node.js, SQL databases (MySQL/Postgres/SQLite), Prometheus, Grafana, Loki

## SOFTWARE ENGINEER AND SYSTEM ADMINISTRATOR
### DEBUT LOGIC CANADA INC. — READYPORTAL and TRIYO
**2015 — 2018**

- Progressed from front-end developer to full-stack engineer and eventually sole backend developer and systems administrator for a multi-tenant web platform and intranet serving ~50K users.
- Built and maintained complex frontend components and the company's first single-page application, implementing a custom rendering engine to support dynamic content on a legacy static platform.
- Designed, extended, and refactored backend services written in Java/JEE and Spring, improving performance, modularity, and maintainability across core platform features such as membership, workflow automation, template-driven UI, and multi-portal customization.
- Implemented integrations with external systems via REST, SOAP, and messaging interfaces, enabling secure data exchange and extending platform capabilities for enterprise clients.
- Led a major infrastructure migration after the departure of the system administrator: rebuilt the entire production environment, moved systems from a managed cloud to self-hosted hardware, redesigned networking, and reconfigured services including web servers, mail servers, proxies, and clustered JVM deployments.
- Ensured high availability across multiple server blades with load balancers and coordinated the migration of customer portals with minimal downtime.
- Managed deployment pipelines, server provisioning, and operational tooling.
- Collaborated closely with clients to customize portals, deliver new features, troubleshoot production issues, and guide technical decisions throughout the product lifecycle.

**Tech stack (abridged)**: Java/JEE, JCR/Jackrabbit, Spring, AngularJS, HTML, CSS/SASS, GoLang, Apache Velocity, webdav, OracleDB, Jetty, Linux server administration, shell scripting, Apache HTTPD, Postfix, bind, vsftpd, cvs, maven, apache ant, physical infrastructure (Load Balancers, RAID5)

## SOFTWARE DEVELOPER
### CYCLONE MANUFACTURING
2012 — 2013

- Developed an internal application to automate the company's quoting process, simplifying manual Excel-based workflows with improved accuracy, consistency and efficiency in quote generation.
- Built tooling to eliminate repetitive manual tasks and assist in transitioning from paper-based processes to digital systems.

**Tech stack (abridged)**: .NET, C#, SQL, CMD, PowerShell, database-driven application development

# PERSONAL PROJECTS

- **Unity Desktop for Slackware Linux:** Created and maintained the only known Slackware-compatible package set of the Unity desktop environment, including full build scripts and patches, while adhering to Slackware's KISS philosophy.
- ***NIX Packaging:** Maintained multiple packages for Slackware, Arch Linux and FreeBSD.
- **Developer Tools:** Built a range of open-source tools including Gentoo installation automation, Liquibase utilities, build-script converters for Slackware, and tooling for CSGO map development.
- **Discord Bots:** Forked and extended several Discord bots, adding custom features for personal community use.

**Tech highlights**: Slackware/Arch/Gentoo Linux, Bash scripting, package maintenance, OS-level debugging, open-source tooling

# ADDITIONAL

Languages: English (fluent), Polish (fluent), French (basic), Ukrainian (basic)

Interests: Linux systems, open-source software, language learning, fiction reading