Edward **Vaisman**

✉ vaismanedward@gmail.com | 🐙 eddyv | 🖥 edwardvaisman.ca | 🔗 edwardvaisman | 📞 (+1) 647-219-6236

Professional Summary

Software engineer with 8+ years of expertise specializing in distributed systems and event-driven architectures. Proven track record in designing and implementing enterprise-scale Kafka ecosystems, cloud-native solutions, and real-time data pipelines across various cloud providers. Known for architecting sophisticated systems - from protocol-level engineering to AI-powered applications - while championing technical excellence and automating workflows.

Professional Experience

Confluent
Staff Partner Innovation Engineer

Toronto, ON
Oct 2022 - Current

- Designed & built a Kafka proxy to interpret Kafka's wire protocol, bridging clients and brokers to unlock advanced Confluent Cloud use cases via pluggable modules (Authentication Transformers, Interceptors).
- Developed a DynamoDB Source Connector for a client, later promoted to a fully managed source connector.
- Enhanced consumption tracking methodologies, driving insights into confluent cloud usage and billing.
- Delivered an end-to-end Generative AI and Retrieval-Augmented Generation (RAG) application, integrating Confluent, Apache Flink, AI Model Inference, MongoDB Atlas, and a suite of AWS services (including Lambda, API Gateway, Secrets Manager, and S3), showcased at AWS re:Invent and webinars as a go-to-market initiative, strengthening strategic partnerships through co-marketing and technical collaboration.
- Engineering cutting-edge Model Context Protocol (MCP) architectures to enhance LLM capabilities and RAG system integration.

`Kafka` `Flink` `KStream` `Model Context Protocol` `Terraform` `Java` `Vert.x` `GenAI` `AWS` `GCP` `Azure`

Wavelo (Tucows)
Senior Staff Engineer (Kafka)

Toronto, ON
Nov 2020 - Oct 2022

- Architected and secured a robust, multi-datacenter Kafka infrastructure, including add-ons like Confluent Schema Registry, MirrorMaker2, and Kafka Connect.
- Developed automation for provisioning, maintaining, and monitoring Kafka environments using the HashiCorp stack.
- Designed, implemented, and operated multi-datacenter Kafka infrastructure along-side kafka add-ons such as Confluent Schema Registry, MirrorMaker2, Kafka Connect.
- Implemented observability solutions, creating real-time monitoring dashboards to track Kafka cluster connectivity, security, and performance. (DataDog, ElasticSearch, Prometheus, Grafana)
- Built self-serve GitOps tools to increase speed and productivity of developers using the kafka platform. (Topic Management, ACL Management, Kafka Connect Cluster Deployment, KSQL Deployment, Self-Hosted GitHub Runners, etc...)
- Increased our PaaS offerings by building an in-house CLI to interact with our private cloud infrastructure to deal with secret management, volume management, application deployment. (Typer CLI, Nomad APIs, Vault APIs)
- Optimized Kafka performance by identifying bottlenecks and implementing throughput enhancements.
- Ensured system reliability through rigorous disaster recovery testing and routine backup and restoration exercises.
- Educated staff on Kafka architecture, Schema Registry, and event-driven design principles, fostering company-wide adoption of best practices.

`Kafka` `Terraform` `Nomad` `Vault` `SaltStack` `Docker` `GitHub Actions` `Prometheus` `Grafana` `DataDog` `ElasticSearch`

Bank Of Montreal (BMO)
Senior Application Developer

Toronto, ON
Sept 2018 - Oct 2020

- Played a key role in advancing the bank's Customer Intelligence Platform by delivering a near real-time solution to provide the business with a unified view of customer interactions and enhance customer experience.
- Onboarded, trained, and mentored developers, ensuring comfortability and expertise in distributed systems, Git Flow, Dockerized deployments, and event-driven architecture.
- Designed and implemented a secure, field-level encrypted real-time data pipeline enabling seamless data transfer between on-premises and cloud-based Kafka clusters (AWS).
- Developed and optimized real-time streaming data pipelines to facilitate reliable data exchange across systems and applications.
- Created real-time streaming applications to transform and react to data streams, driving actionable insights.
- Automated workflows and integrations to enhance operational efficiency and effectiveness.
- Produced high-quality software implementations, adhering to stringent standards for security, logging, error handling, performance, and other non-functional requirements.

`Kafka` `Kafka Streams` `Java` `Spring Boot` `AWS`

Viacoremedia
Web Developer

- Managed web pages, email hosting, and web hosting services to ensure seamless client operations and user satisfaction.
- Designed and developed scalable, responsive, and robust web pages optimized for high performance and conversion rates.
- Collaborated with clients and project managers to define project scope, goals, and deliverables, including SEO optimization strategies.
- Gathered and analyzed user data to enhance website performance and presented actionable insights to clients.
- Delivered detailed software solutions encompassing animations (CSS3, JQuery), scripting (PHP, JavaScript, JQuery, Google Apps Scripts), and CMS development (WordPress).
- Built proficiency in time management by consistently meeting tight deadlines across multiple projects.

HTML   CSS   JavaScript   PHP   WordPress   JQuery   Google Apps Scripts   SEO

Skills

Programming	Java, Python, Bash, C#, XNA Game Studio
Web	HTML5, CSS, JavaScript, Tailwindcss, Astro, WordPress, React
Big Data	Confluent, Kafka, Flink,DataHub
Cloud	AWS, GCP, Azure, OpenStack, DigitalOcean
DevOps	GitHub, GitHub Actions, SemaphoreCI, SaltStack, Terraform, Nomad, Vault, Docker, GitLab, Ansible, Maven
Languages	English, Russian.

Education

York University
B.Sc, Spec. Hons. Computer Science (Software Development)

Toronto, ON
Sept 2013 - April 2018