Edward **Vaisman**

✉ vaismanedward@gmail.com | ⬛ eddyv | ⬛ edwardvaisman.ca | in 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 *Toronto, ON*
Staff Partner Innovation Engineer *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) *Toronto, ON*
Senior Staff Engineer (Kafka) *Nov 2020 - Oct 2022*

- Architected multi-datacenter Kafka infrastructure with Schema Registry, MirrorMaker2, and Connect.
- Developed automation for provisioning, maintaining, and monitoring Kafka environments using the HashiCorp stack.
- 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) *Toronto, ON*
Senior Application Developer *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.
- 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.

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

Viacoremedia *Toronto, ON*
Web Developer *May 2016 - Sept 2018*

- Designed and developed scalable, responsive, and robust web pages optimized for high performance & conversion rates.
- Managed web pages, email hosting, and web hosting services to ensure seamless client operations and user satisfaction.
- Delivered detailed software solutions encompassing animations, scripting, and CMS development.

`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, SaltStack, Terraform, Nomad, Vault, Docker, GitLab, Ansible, Maven

Education

York University *Toronto, ON*
B.Sc, Spec. Hons. Computer Science (Software Development) *Sept 2013 - April 2018*