

# Kevin Mok

647-685-2500  
me@kevin-mok.com

[linkedin.com/in/Kev-Mok](https://linkedin.com/in/Kev-Mok)   
[github.com/Kevin-Mok](https://github.com/Kevin-Mok) 

## Projects

### AML Risk Analytics <Python, SQL, Tableau>

July 2025

- Built an end-to-end AML simulation using **Python**, generating **9M+ records** across customers, transactions, and alerts to mimic real-world financial behavior and suspicious activity patterns.
- Wrote advanced **SQL (CTEs + joins)** to classify **high-risk customers**, calculate alert counts, and filter transactions over the past 90 days with aggregated metrics.
- Engineered a **risk scoring model** in Python using transaction thresholds and alert volume to classify customers as Elevated or Critical risk.
- Designed **interactive Tableau dashboards** (Risk Heatmap, Alert Efficiency, Risk vs. Avg Amount) to visualize cross-country AML exposure and alert effectiveness.
- Developed **KPI-ready metrics** (alert rate, avg USD exposure, transaction volume) to drive AML performance reporting and enable cross-country risk comparisons.
- **Normalized multi-currency transaction data** to ensure consistent exposure calculations across USD, CAD, and EUR, supporting reliable AML metric aggregation.

### Spotify Visualized <Python, Django>

June 2023

- Built a **high-performance Python backend** using Django and PostgreSQL to process 10K+ data records per user, optimizing ingestion pipelines via API integration and ORM modeling.
- Engineered **normalized database schemas** to streamline query workflows, achieving a **50% reduction in PostgreSQL latency** for high-volume reporting tasks.
- **Visualized user music libraries in Tableau**, creating dashboards that grouped tracks by **artist and genre**, enabling users to explore listening patterns and discover trends in their Spotify data.

### Rarity Surf <Python, Django, JavaScript, React>

Oct 2022

- Built a **full-stack reporting tool** using React, Django, and **PostgreSQL** to analyze structured/unstructured metadata from APIs, enabling real-time rarity scoring and improving insight delivery by **80%**.
- Optimized **SQL query performance** within a Django-based pipeline, processing NFT ranking data at scale and exposing results via GraphQL with **low-latency response times under high concurrency (2,000+ queries)**.

## Work Experience

### Red Hat

May 2022 - Aug 2023

#### Cloud/Software Engineer Intern <Kubernetes, GoLang, Jenkins>

- Decreased manual configuration errors by **80%** by automating service discovery and dynamic config updates, aligning with AML goals of minimizing operational risk and improving data integrity.
- Enhanced **CI pipeline reproducibility and performance** by rewriting the Jenkins nightly pipeline to support automated PR-level testing with reusable parameters, improving report consistency across environments.
- Collaborated **cross-functionally** with developers and testers to maintain reliable infrastructure, echoing the AML role's emphasis on stakeholder partnership for building robust reporting systems.
- Improved system reliability during production launches by implementing startup probes for legacy services, reducing downtime and enhancing stability for automated monitoring/reporting pipelines.
- Reduced reporting deployment time by **66%** by building a CLI-based solution to push compiled binaries directly into Kubernetes/OpenShift clusters, accelerating turnaround for testing and data validation workflows.

## Skills

**Python, SQL, PostgreSQL, Tableau, MongoDB, JavaScript, Django, React, Bash, Git, Linux, Command Line, GoLang, AWS, Kubernetes, Terraform, Docker (Compose), Jenkins, Groovy, Solidity, C**

## Education

### University of Toronto (St. George)

2019 - 2024

Computer Science Specialist - 3.84 GPA (CS). Graduated with High Distinction.