

# Kevin Mok

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## 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, Go(Lang), 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.