

Dhruv Mittal

(+1) 437 982 2906 | d2mittal29@gmail.com | [linkedin.com/in/d2mittal](https://www.linkedin.com/in/d2mittal) | github.com/dhmi19

SKILLS

Languages: Python, Go, Typescript, Kotlin, C++, PHP, C, Dart, SQL, Bash, HTML, CSS

Technologies: Kafka, Django, Node, Laravel, AWS, React, Docker, Kubernetes, MongoDB, PostgresDB, GraphQL, Grafana, Git

WORK EXPERIENCE

Wave | Software Engineer

Jun 2024 – Present

- Developing a new payments microservice with domain and event driven architecture using **Kafka and Django**
- Designed batch processing flow with **Kubernetes cron jobs** to manage payouts for **2000+** bank payments per day
- Coordinated migration to the latest provider API version, central to onboarding **300+** businesses to payments daily
- Introduced **Redis** based lock to coordinate resource access, preventing race conditions in a distributed environment

Bloomberg | Software Engineer Intern

Sept 2023 – Dec 2023

- Developed a document ingestion pipeline to process **100,000+** financial documents per week with **Airflow** and **Kafka**
- Used dynamic task mapping and **Celery** to process **Python** tasks concurrently, reducing processing time by **15%**
- Deployed Airflow to a distributed environment with **3** schedulers and many worker machines for increased resiliency
- Visualized **statsD** metrics in a **Grafana** dashboard and collected distributed logs on **Humio** for system monitoring

Extend | Backend Software Engineer Intern

May 2023 – Aug 2023

- Architected independent module in **Kotlin** to asynchronously generate and store reports using **RabbitMQ** and **AWS S3**
- Refactored accounts module to use the **Ports-and-Adapters pattern**, enabling an increase in test coverage by **65%**
- Automated synthetic tests for external card network integrations to reduce CX workload by **15+ hours a week**
- Launched e2e and load testing framework using **Gatling**, integrated with CI/CD pipeline using Github actions

Wave | Software Engineer Intern

Sep 2022 – Dec 2022

- Created and deployed a **Kafka** application to connect Banking with other **microservices**, resolving data inconsistencies
- Republished filtered events from **Lambda** consumers to **AWS SNS**, enabling parallel processing of high-volume topics
- Lead cross-team initiative to **containerize** automated type generation from **Avro** schemas and identified **company-wide** errors in schema definitions, saving **100+ hours** of code refactoring and helping new teams onboard to **Kafka**
- Processed **SQS events** regarding card issues in **Go** to notify the CX team through Slack, reducing support delay by **60%**
- Created **DynamoDB** tables using **Terraform** and setup API routing using **Serverless** to support ACH debit transfer

Bold Commerce | Software Engineer Intern

Jan 2022 – Apr 2022

- Delivered a centralized feature flag management system to control capabilities for over **1500+** company stores
- Automated deployment management processes by creating RESTful APIs to update feature flags, integrating Slack and Jira **webhooks** to notify developers of changes made to application state
- Developed an end-to-end solution with **Laravel** and **React** to add custom relations between **4500+** customer stores

Condos.ca | Full Stack Development Intern

May 2021 – Aug 2021

- Integrated **4** data feeds to automatically retrieve property records every day, helping expand into **3** new markets
- Abstracted listing feed code in **Laravel** to ease the addition of new feeds and reduced code duplication by **26%**

PROJECTS

UW Blueprint | Team Lead

Aug 2022 – Dec 2022

- Lead a team of **10 developers** to build a camp booking platform for an NPO using **Node**, **React**, and **MongoDB**
- Implemented waitlisting functionality to **increase revenue by 30%** and leveraged **Stripe API** to manage payments
- Responsible for sprint planning, client meetings, running weekly work sessions, code review, mentorship, and socials

EDUCATION

University of Waterloo | Candidate for Honors Bachelor of Computer Science (Co-op)

- 5-time Term Distinction award, 3.9 GPA