Dhruv Mittal

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SKILLS

Languages: Go, Typescript, Python, Kotlin, C++, PHP, C, Dart, SQL, Bash, HTML, CSS
Technologies: Node, Express, Laravel, AWS, React, Spring, Docker, Kubernetes, MongoDB, PostgresDB, GraphQL, Gatling, Git

EDUCATION

University of Waterloo | Candidate for Honors Bachelor of Computer Science (Co-op) Sep 2019 – Apr 2024
- President's Scholarship of Distinction, 5-time Term Distinction award

EXPERIENCES

Bloomberg | *Software Engineer Intern* Sept 2023 – Dec 2023
- Designed an ETL pipeline to ingest and process **100,000+** financial documents per week using **Airflow** and **Kafka**
- Utilized **Celery** and **RabbitMQ** to process python tasks concurrently in a distributed environment

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
- Expanded ERP functionality to synchronize transactions with numerous expense management platforms

Wave | *Software Engineer Intern* Sep 2022 – Dec 2022
- Connected the Banking service with the Wave ecosystem by creating a production-ready **Kafka** solution to consume account closure events, resolving data inconsistency between the Identity and Banking teams
- 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
- Architected an independent service to centralize feature flag management 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
- Delivered an end-to-end solution to add custom relationships between **4500+** customer stores leveraging the repository-service design pattern with **Laravel** and sagas with **React**; presented in company townhall

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%**
- Built additional features on the admin website and refactored the lead dashboard to decrease page load time by **40%**

Year Zero Studios | *Software Developer Intern* Jun 2020 – Aug 2020
- Developed a **Flutter** mobile application incorporating **40** meditation recordings using the **Dart** AudioPlayers library
- Increased content views by **22%** by creating dedicated **React** webpages for podcasts on the company website

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