

Rohit Kaushik

SOFTWARE ENGINEER · FULL-STACK · DEVOPS

Toronto, Ontario, Canada

✉ rohit.kaushik@uwaterloo.ca | 📧 rkaushik29 | 🌐 rkaushik29 | 🌐 https://rkaushik29.github.io/

Education

University of Waterloo

Sep. 2018 - Dec. 2023

BACHELOR OF COMPUTER SCIENCE (HONORS, CO-OP)

- President's Scholarship of Distinction, Faculty of Mathematics Entrance Scholarship, Dean's Honors List (2018), President's International Experience Award, 2x Co-op Outstanding Student of the Year Nomination.
- Coursework: Operating Systems, Compilers, Theory of Computation, Algorithms & Data Structures, Combinatorics, Database Management, User Interfaces, Computer Networks, Data Science & AI, NLP, GPU Programming, Recommender Systems, Social Media Technologies.

Work Experience

Open Search Foundation

Graz, Austria

RESEARCH AND DEVELOPMENT ENGINEER

Feb. 2023 - Jul. 2023

- Investigated the conversion between CIFF and Apache Lucene indexes to make the OpenSearchIndex open to developers.
- Engineered an app in **Java** that allows conversion of CIFF index to Lucene index, search over multiple indexes, and exposes a REST API for developers to use the OpenSearchIndex.
- Developed a **React.js** web application (Tourism in Graz) to demonstrate the use of the API. Published paper @ 5th International **OSSYM, CERN**.

Staax

San Francisco, CA

SOFTWARE ENGINEER

Jun. 2022 - Jan. 2023

- Formulated company **financials and metrics** calculation scripts for **CAC, lifetime value, DAU, MAU, churn and conversions**, and created summary reports on **Google Analytics** for investors by collaborating closely with Staax executives.
- Improved multiple screen render times by **10x** by engineering **data caching** infrastructure with **AWS-Elasticache** for detailed stock data.
- Increased **WAUs by 3x** by building user feedback feature **end-to-end**, with an internal **React.js** website to monitor user feedback and a **Slack API** integration for **instantaneous alerts** of endpoint malfunction on a company slack channel.
- Implemented Node.js endpoints, routes and integrated third-party APIs using **MVC** design pattern by enforcing types in **Typescript**.
- Designed and created React Native screens with end-to-end data flows for **Android** and **iOS** through wireframing and **AB testing**.
- Created dashboards on **AWS-CloudWatch** to monitor environment health and app data using **log queries** via bunyan event logger.
- Developed stock categories feature **end-to-end**, including Node.js endpoints and **React Native** screens, with supporting **AWS-Lambdas** for periodic data retrieval from external APIs, and a **multi-layer-perceptron** for categorization of **over 2000 stocks**.

MealMe

San Francisco, CA

SOFTWARE ENGINEER

Jan 2022 - May 2022

- Improved **Series A metric** of total orderable products by **over 1 million** through integrating 10+ delivery services in USA & CAN (**300,000+ stores**) for food, groceries, laundry, etc. using **Python crawlers**.
- Improved **Series A metric** of **data accuracy by 38%** by devising compound MongoDB **database indexing** to accelerate search queries by **20%** and engineered **Django** endpoints to enable cross-communication between internal services.
- Optimized crawler speed by **64x** and enhanced search engine compilation in **C++**, parsing and adding **2 stores/second** to MongoDB.
- Partnered with 8+ **clients of our API**, continually assessed their needs and requests, added **Flask** endpoints for them to retrieve data and provided maintenance, and onboarded new clients to our API leading to **diversified revenue** streams.
- Enforced strict **data engineering** standards to improve data consistency for the MealMe-Apple Maps integration, which involved collaborating with the CEO to build a **universal product search** algorithm.

Lixar (Fuelled by BDO)

Ottawa, ON

DEVOPS ENGINEER

Jun. 2021 - Aug. 2021

- Accelerated product launch by **75%** by implementing company-wide **production pipeline** templates for React.js WebApps and React Native apps with **Github Actions** and supporting Python scripts.
- Spearheaded client meetings to develop **AWS-CodeDeploy pipelines** with **Java SpringBoot** and springdoc for specific client products.
- Orchestrated **demo meetings** with clients for production volume and load distribution **proof-of-concepts** using **Kubernetes**.

SS&C

Toronto, ON

FULLSTACK DEVELOPER

Jan. 2020 - Apr. 2020

- Saved **\$60,000/month** by automating **Selenium** testing suite, by eliminating dependency on QA freelancers.
- Improved employee onboarding flow by refactoring back-end code base in **Java** for the trading platform used by State Street Financial.
- Alleviated manual expense tracking and improved **HR workflows** by developing an **expense management** internal application in React.js.
- Increased **data throughput** for T. Rowe Price (clients) by engineering a new **AWS Multipart Upload** dataflow and **demonstrating proof-of-concepts** to top level executives (**CIO, CTO**).

Skills

Languages Python, C++, Java, C, Kotlin, TypeScript, Go, Ruby, SQL, GraphQL, Solidity, Bash

Technology Linux, Firebase, MongoDB, Node.js, Express, Django, Flask, React, React Native, Svelte, Vue, Three.js, Google Analytics, AWS(Lambda, S3, EC2, ElastiCache, CodeDeploy), Github Actions, Postman, Docker