

# Benjamin Kostiuik

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## Experience

### Royal Bank of Canada

July 2023 – Present

*Senior Full Stack Developer | Java, Spring-boot, Python, SQL, Airflow, Spark*   *Toronto, ON*

- Develop and maintain features for critical marketing microservice ecosystem of Java Spring Boot and Python FastAPI applications used to create and track marketing offers sent to 16+ million clients daily.
- Engineer scalable ETL pipelines to securely transfer 100+ terabytes of client data from on-premise storage to AWS S3, using PySpark, Airflow, AWS Glue and custom python tooling.
- Lead large-scale migration of services between private cloud hosting providers from Pivotal Cloud Foundry to Red Hat OpenShift with 0% downtime and minimal impact on users.
- Design and implement automation software to handle channel communication sequencing using Airflow, PySpark and Postgres, saving 250+ hours/year of manual work.

### Affirm

May – Aug. 2022

*Software Engineering Intern | Python, Spark, React, Kubernetes, AWS*   *Remote*

- Developed a self-service system to automate rotation of keys used for transmission of documents to investors, reducing operational time required from half a day to minutes.
- Migrated data pipelines developed in Python to Spark on Kubernetes resulting in a 2x speedup from gains in parallelization and data processing.
- Improved security when onboarding new investors by enriching test coverage of critical systems used to setup new funding deals.

### Coveo

May – Aug. 2021

*Software Engineering Intern | C#, React, Golang, Node.js, MongoDB*   *Remote*

- Reduced time required for stress testing and client demo development of Coveo's Slack integration by 10x by developing an impersonation tool for automating QA actions with Express.js & MongoDB.
- Enabled client teams and partners to deploy custom code to the Coveo platform with ease using a CLI tool built with Node.js.
- Improved the performance of cloud search and crawlers developed in C# and Go.

## Skills

- **Languages:** Java, Python, JavaScript, TypeScript, HTML & CSS, C#, Haskell, Bash
- **Tools/Technologies:** FastAPI, Airflow, PySpark, React, Angular, Spring Boot, Docker, Git, SQL

## Projects

🔗 **QTime (Queue Time)** | *React Native, Python, Firebase, Expo, Github Actions, AWS*

- Led development of mobile application tracking wait times for services across McMaster's campus.
- Designed using React Native, Python Flask and Firebase. Supports Google sign-in.
- Hosted on AWS, leveraging GitHub Actions, Docker, Expo for CI/CD pipelines.

## Education

### B.A.Sc. Honors, Computer Science

Sep. 2018 - Apr. 2023

*McMaster University*

- Dean & Provost's Honor Roll
- Relevant coursework: Data Structures & Algorithms, Principles of Programming, Discrete Mathematics
- Undergrad TA for CS 2FA3 Discrete Mathematics & CS 2C03 Data Structures & Algorithms