

# Benjamin Kostiuik

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## Experience

### Royal Bank of Canada

July 2023 – Present

*Senior Full Stack Developer | Python, Airflow, Spark, Java, Spring-boot, Angular, SQL*   *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.
- Automate sequencing of marketing offers across 40+ distribution channels—including email, dm, web banners and advisor systems—by building an orchestration framework with Airflow, PySpark and Postgres, saving 250+ hours annually.
- Build and maintain scalable ETL pipelines using Pyspark, Airflow and AWS Glue to securely transfer 100+ TB of client data from on-prem storage to AWS S3.
- Led cloud migration of mission-critical microservices from PaaS Pivotal Cloud Foundry to Red Hat OpenShift with 0% downtime and seamless user experience.

### Affirm

May – Aug 2022

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

- Automated encryption-key rotation for investor document transmission by building a self-service portal with Airflow and React, reducing key-rotation time from ~6 hours to 5 minutes.
- Ported Python ETL workflows to Spark on Kubernetes—doubling data-processing throughput and reducing pipeline costs by 30% through improved parallelization and efficiencies.
- Increased test coverage of critical investor-onboarding systems to meet compliance—preventing deployment of P2 vulnerability ahead of new funding deal.

### Coveo

May – Aug 2021

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

- Reduced stress testing and demo time required for Coveo's Slack integration by 10x with an "impersonation" tool built with Express.js and MongoDB to automate end-to-end QA scenarios.
- Empowered client teams and partners to deploy custom code to the Coveo platform via a Node.js CLI tool, cutting deployment time by 90% through automation.
- Optimized performance of cloud search and crawler written in C# and Go improving crawler throughput by 20%.

## Skills

- **Languages:** Python, Java, JavaScript, Typescript, HTML, CSS, Bash, C#, Haskell, SQL
- **Frameworks:** React, Angular, Spring Boot, FastAPI, Flask, Node.js
- **Tools/Technologies:** Airflow, PySpark, Spark, Docker, Git, MongoDB, Postgres, GitHub Actions, Openshift

## Projects

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

- Led development and launch of "QTime", a cross-platform React Native mobile app used by students to monitor wait times or campus services in real time; developed with Python Flask, Firebase and leveraging Bluetooth low-energy technology.
- Automated CI/CD with pipelines leveraging GitHub Actions, Docker and Expo to host on AWS.

## 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 and CS 2C03 Data Structures & Algorithms