

ADWAIT KULKARNI

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Computer Science major and **Data Science** minor at the University of British Columbia in Vancouver, Canada with 1 year of professional experience working as a **Full-Stack Developer** with the **Royal Bank of Canada**.

EDUCATION

University of British Columbia
BS in Computer Science and Minor in Data Science

Vancouver, BC
September 2020 – May 2025 (Expected)

EXPERIENCE

Full-Stack Developer Intern
Royal Bank of Canada (RBC)

Toronto, ON
April 2023 – August 2023

- Reduced development time by 70% for over 200 developers by launching a Java Spring and Thymeleaf-based secret retrieval tool on RBC's Innersource platform, using Hashicorp Vault.
- Designed 5 REST services post-HSBC acquisition, and built a Kafka app for real-time monitoring of 20+ topics.
- Developed over 10 features for RBC's open-source projects using Java and Web technologies, created technical documentation resulting in a 50% increase in project adoption, and resolved 20+ bugs.
- Spearheaded dev onboarding by creating development setup and access guides and mentored 4 new developers.
- Chosen as 'Top Talent' from 1400 interns; spoke directly with executive VPs and Directors to discuss key projects.

Full-Stack Developer Intern
Royal Bank of Canada (RBC)

Toronto, ON
August 2022 – April 2023

- Architected microservices with Java Spring to extract deposit accounts from mainframe databases and store them in Kafka topics, and using Redis cache, brought down data recovery time by 25%.
- Developed information storage design for 20+ apps, covering 100,000+ profiles and 500,000+ client records.
- Reduced tech debt by 40% in JIRA by updating Maven service dependencies, transitioning secret storage from local YAML environments to online platforms, and releasing hot-fix patches for outdated third-party libraries.
- Authored a migration guide for RedHat OpenShift and Pivotal Cloud Foundry and independently migrated 10+ apps across cloud platforms.

PROJECTS

Upbeat Updates | *React.js, MongoDB, Node.js, Express.js, Sentiment*

January 2024 – July 2024

- Created a positive news website using News-API with React.js, Material UI and Express.js, MongoDB on Vercel, ensuring secure authentication with BCrypt and handling over 1000 daily requests.
- Implemented sentiment analysis using Sentiment and visualization with React Charts to analyze real-time sentiment of articles and sharing functionality, improving Customer Satisfaction Score (CSAT) by 30%.
- Applied K-Means clustering with Scikit-Learn, informing users about their positivity, boosting engagement by 50%.

MovieHub | *React.js, Node.js, Material-UI, Express.js, MongoDB, TMDB*

April 2024 – September 2024

- Engineered a full-stack recommendation app in a team of 4, with options to rate, review, share, and stream movies.
- Designed end-to-end encryption with BCrypt, increasing security and reducing unauthorized access by 60%.
- Developed dynamic watch lists using MongoDB Schemas and leveraged caching to minimize latency by 50%.
- Carried out CI/CD using GitHub Actions, automated tests with Vitest, and used Docker images for deployment.

Tweet-Vibes | *Apache Kafka, Java, Stanford NLP, Twitter, ElasticSearch*

August 2022 – July 2023

- Built a Tweet analyzer with Spring Boot and Kafka, indexing tweets in Elasticsearch and processing 1000+/min.
- Used pre-built machine-learning models from Stanford NLP Library to categorize tweets into 5 sentiment values.
- Designed OAuth-based user authentication with Twitter4j and created a real-time processor with a 500ms RT.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R

Frameworks/Libraries: Spring, React.js, Node.js, Express.js, Pandas, Scikit-Learn, Flask, Mongoose, JUnit, Vitest

Tools/Technologies: Apache Kafka, Redux, Git, GitHub Actions, Docker, Maven, Jenkins, AWS, OpenShift, Cloud Foundry

Databases: MySQL, MongoDB, H2, Redis, Elasticsearch