

ADWAIT KULKARNI

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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
August 2022 – August 2023

- Architected microservices with Java Spring to extract deposit accounts from mainframe databases and store in Kafka topics, and using Redis cache, improved data retrieval speed by 25%.
- Launched a Spring and Thymeleaf-based tool on RBC's Innersource platform, reducing retrieval time by 70% for over 200 developers using Hashicorp Vault.
- Contributed to RBC's open-source projects by developing over 10 new features, creating technical documentation resulting in a 50% increase in project adoption, and resolving 20+ bugs.
- Authored a cloud platform migration guide, conducted KT sessions, and independently migrated 10+ apps across platforms using UCD and Cloud Foundry.
- Developed information storage design for 20+ apps, covering 100,000+ profiles and 500,000+ records.
- Composed design approaches to build 5 APIs following RBC's acquisition of HSBC, and manufactured a Kafka monitor tool to monitor topic meta-data for 20+ topics in real-time.
- Recognized as 'Top Talent' among 1400+ interns. Met with executive VPs, CIOs, and Directors to discuss work.

PROJECTS

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

January 2024 – July 2024

- Developed 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 requests a day.
- 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 to categorize news articles as per sentiment, informing users about the positivity of their preferences, increasing engagement by 50%.

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

April 2024 – September 2024

- Developed a full-stack recommendation app in a team of 4, with options to rate, review, share, and stream movies.
- Designed end-to-end user credential encryption with BCrypt, 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.

People Data Management Solution | *Java, Spring, MySQL, React.js*

April 2023 – October 2023

- Developed a microservices project for managing 500+ employees' data with a 100ms retrieval time.
- Built a REST back-end for 3 microservices, API gateway, and config server with Spring, MySQL, and JPA interface.
- Leveraged SLF4J to reduce logging issues by 95%. Dockerized the app, cutting deployment time by 70%.

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

August 2022 – July 2023

- Built a real-time Tweet analysis app with Spring Boot as the back-end and Apache Kafka as the messaging system, processing over 1000 tweets/min and indexing in Elasticsearch.
- 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, OpenShift, Cloud Foundry

Databases: MySQL, MongoDB, H2, Redis, Elasticsearch