# Adwait Kulkarni

(604) 720-4861 | adwait.kul.2018@gmail.com | https://www.linkedin.com/in/adwaitkulkarni58/ | GitHub | Website

## EDUCATION

**University of British Columbia**                                                                     **Vancouver, BC**
*BS in Computer Science and Minor in Data Science*                        *September 2020 – May 2025 (Expected)*

- Developer in UBC Subbots, GDSC UBC, and UBC DSCI clubs. Past participant of Google's invite-only Software Product Sprint.

## EXPERIENCE

**Full-Stack Developer Intern**                                                                          **Toronto, ON**
*Royal Bank of Canada (RBC)*                                                                 *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.
- Devised 5 REST services post-HSBC acquisition, and built a Kafka app for real-time monitoring of 20+ production topics.
- Developed over 10 features for RBC's open-source projects using Java and Web technologies, composed technical documentation resulting in a 50% increase in project adoption, and resolved 20+ bugs.
- Spearheaded dev onboarding by creating development setup and environment access guides and mentored 3 new developers.
- Chosen as 'Top Talent' from 1400 interns; discussed key projects with executive VPs and Directors in a round-table conference.

**Full-Stack Developer Intern**                                                                          **Toronto, ON**
*Royal Bank of Canada (RBC)*                                                                 *August 2022 – April 2023*

- Architected microservices with Java Spring to extract deposit accounts from mainframe databases, process, and store them in Kafka topics, and using Redis cache, brought down data recovery time by 25%.
- Improved critical storage infrastructure 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transitioning secret storage from local YAML environments to online platforms, and releasing hot-fix patches for outdated third-party libraries.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 cloud migration guides for RedHat OpenShift and Pivotal Cloud Foundry and independently migrated 10+ apps across cloud service providers.

## 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%.
- Carried out unsupervised learning with K-means in Scikit-Learn, informing users of positivity and boosting engagement by 50%.

**MovieHub** | *React.js, Node.js, Material-UI, Express.js, MongoDB, TMDB*                **April 2024 – September 2024**
- Led a team of 4 to engineer a full-stack movie recommendation app, with options to rate, review, share, and stream movies.
- Formulated end-to-end encryption with BCrypt hashing, increasing security and reducing unauthorized access by 60%.
- Modeled evolving watchlists for user preferences using MongoDB Schemas and leveraged caching to reduce latency by 50%.
- Performed CI/CD with GitHub Actions, enhanced automated tests using Vitest and Postman, and deployed with Docker images.

**Tweet-Vibes** | *Apache Kafka, Java, Stanford NLP, Twitter, Elasticsearch*               **August 2022 – July 2023**
- Built a Tweet analyzer with Spring Boot and Apache Kafka, indexing tweets in Elasticsearch and processing 1000+/min.
- Used pre-trained supervised machine-learning models from Stanford's NLP Library to classify tweets into 5 sentiment values.
- Configured an OAuth-based user authentication system with Twitter4j and formed a real-time tweet processor with 500ms RT.

## TECHNICAL SKILLS

**Languages**: Java, Python, JavaScript, HTML/CSS, R, C/C++
**Frameworks/Libraries**: Spring, React.js, Node.js, Express.js, pandas, Scikit-Learn, Material-UI, Mongoose, JUnit, Vitest
**Tools/Technologies**: Apache Kafka, Redux, Git, GitHub Actions, Docker, Maven, Jenkins, AWS, OpenShift, Cloud Foundry
**Databases**: MongoDB, MySQL, S3, Redis, H2, Elasticsearch