Adwait Kulkarni

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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.

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, SageMaker, Jenkins, AWS, OpenShift, Cloud Foundry
Databases: MongoDB, MySQL, RDS, Redis, H2, Elasticsearch

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transitioning secret storage from local YAML environments to online platforms, and releasing hot-fix patches for outdated third-party libraries.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.