

Adwait Kulkarni

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EDUCATION

University of British Columbia

B.Sc. in Computer Science, Minor in Data Science — GPA: 3.8/4.0

Vancouver, BC

September 2020 – April 2025

- Developer in UBC Subbots, GDSC UBC, and Data Science clubs. Selected for Google's invite-only Software Product Sprint.

EXPERIENCE

Full-Stack Developer Intern

Royal Bank of Canada (RBC)

April 2023 – August 2023

Toronto, ON

- Designed and delivered Java Spring microservices and RESTful APIs with Kafka pipelines, cutting data recovery time by 25% for downstream services.
- Accomplished to reduce monitoring time of 20+ services for 50+ applications by ideating a Kafka-based solution.
- Took ownership of features in RBC's open-source projects, delivering 10+ enhancements and resolving 20+ bugs using Java and full-stack web tools, and authored technical docs.
- Led onboarding by creating dev setup guides and mentoring 2 hires, reducing ramp-up time by 50%.
- Selected as 'Top Talent' among 1,400 interns and invited to leadership round-tables with EVP of Payments.

Full-Stack Developer Intern

Royal Bank of Canada (RBC)

August 2022 – April 2023

Toronto, ON

- Deployed a Spring Web and Thymeleaf-based secrets retrieval tool to reduce credential setup time from 10+ minutes to under 2 minutes, boosting productivity for 200+ developers.
- Secured credentials for 20+ applications by integrating Hashicorp Vault's API for over 10,000 service accounts.
- Administered and oversaw maintenance by updating Maven dependencies, transitioning secrets from YAML to cloud, and patching outdated libraries - reduced overall JIRA team tech debt by 40%.
- Independently migrated 10+ applications across RedHat OpenShift and Pivotal Cloud Foundry platforms.

PROJECTS

Distributed Key-Value Store with Raft | Go, RPC, Raft

January 2025 – April 2025

- Engineered a fault-tolerant, distributed key-value store with Go and Raft consensus based on Stanford ATC 2014.
- Improved leader election duration by 40% with heartbeats every 250ms, leading to election completion in 500ms.
- Achieved replicated logging via RPCs and implemented adaptive retries to eliminate redundant calls.
- Designed recovery with snapshots and log pruning to reduce disaster recovery time from 750ms to 300ms.

TL;DRReviews | React.js, Lambda, SageMaker, RDS, S3, Hugging Face, Docker

August 2024 – December 2024

- Created an AWS pipeline to analyze 6000+ course reviews, generating real-time insights through a dashboard.
- Built a summarization model with Google's PEGASUS XSUM on SageMaker, automated batch processing for scalability.
- Implemented VPCs, IAM roles, Security Groups, and KMS—complying with CIS, CISA, and NIST standards.
- Shipped dynamic visualizations with D3.js for sentiment, keywords, and confidence scoring.
- Cut AWS expenses by \$20/month by replacing EC2 VM solutions with Lambda auto-scaling for SageMaker.

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

April 2024 – September 2024

- Led a team of 4 to build a movie-sharing and review platform by integrating TMDB API.
- Implemented bcrypt hashing and JWT encryption with session handling and token expiry.
- Automated CI/CD and testing with GitHub Actions, Vitest, and Postman, and packaged with Docker Images.

TECHNICAL SKILLS

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

Frameworks/Libraries: Spring Boot, React.js, Node.js, Express.js, D3.js, pandas, Scikit-Learn, Altair, JUnit, Vitest

Tools/Technologies: Apache Kafka, Git, Thymeleaf, Docker, AWS (SageMaker, S3, Lambda, RDS), OpenShift, Cloud Foundry

Databases: MongoDB, MySQL, Redis, H2, Elasticsearch