

Bradley Liu

Software Engineer

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Toronto, Canada (with ability to relocate)

INDUSTRY EXPERIENCE

Wealthsimple	May 2025 - December 2025	Software Engineer Intern
<div><div>- Contributed to SpringBoot/Vaadin/Kotlin/Oracle/PostgreSQL application solution to Oracle Forms migration</div><div>- Shipped features to production (recording transactions to General Ledger, pagination, UI features, JUnit tests)</div><div>- Lead migration of several features off of Oracle stored procedures to connect to other various backend services.</div><div>- Total refactor of code to utilize coroutines and channels for concurrency, increasing reliability and performance</div><div>- On call duties requiring cross platform team communication leveraging Datadog, Preset, and SQL queries</div><div>- Integrated Segment analytics to track user actions and Mixpanel destination source for data visualization</div><div>- Implemented Jira Story Advisor application with AWS services (IAM, SQS, EKS), deployed within a Kubernetes cluster</div><div>- Help implemented trade execution features by migrating service calls and deprecating original service</div><div>- Modified Airflow data pipeline to include new Spark transformations for handling CDS tax year data with S3 buckets</div><div>- Created production web features to bulk download tax/monthly statements and display foreign assets in mobile app</div><div>- Backtraced backend service flows to resolve bugs found in different web/mobile frontend features</div></div>		
Thales Group	April 2024 - December 2024	Software Developer Intern
<div><div>- Created command line interface tool that is automatically generated from any Swagger specification</div><div>- Modified open source code (https://github.com/OpenAPITools/openapi-generator) to generate custom Go code</div><div>- Built application CI/CD pipeline containerizing pipeline stages' build environments, incorporating deployed containers with linter, build, test, and Synopsys scan stages</div><div>- Application shipped to customers with HSM operating system's finalized API specification</div></div>		
Royal Bank of Canada	September 2023 - December 2023	Android Developer Intern
<div><div>- Implemented Android Kotlin passwordless authentication using Google's Credential Manager API within the login and register flow for RBC's Android Mobile Banking application</div><div>- Created Proof of Concept by mocking backend server requests and documented implementation and limitations</div><div>- Created Python script to automate and replace manual APK checklists before the Google Play Store upload eliminating developer time and optimizing developer flexibility significantly</div></div>		
Morgan Stanley	January 2023 - August 2023	Software Developer Intern
<div><div>- Application containerization in a complex enterprise e-business applications environment on RedHat OpenShift</div><div>- Took part in creating, teaching and hosting firmwide workshops on cloud migration</div><div>- Built React.js workshop front-end site, then containerized and deployed into cloud with a new Jenkins pipeline</div><div>- Incorporated automated regression Cypress testing into Jenkins CI/CD pipeline.</div></div>		
Computer Methods International Corp.	August 2022 - January 2023	Software Developer Intern
<div><div>- Work in Oracle database (PL/SQL Developer) integrating new data pipelines for data mapping between partners</div><div>- Wrote SQL scripts for cleaning data, debugging, and resolving database errors in the ETL process</div><div>- Created Python script to replace manual setup of parameters for data pipelines</div><div>- Tested REST APIs using Postman, and created documentation outlining bug and errors</div></div>		

EDUCATION

Honors, BSc in Computer Science	June 2025 (New Grad)	University of Ottawa, Canada
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PROJECTS (<https://github.com/bradley121901>)

Full Stack Web/Mobile, Large Data Analysis and Visualization, Machine Learning Clustering and Prediction projects.

Computer Vision Cat Toy	Raspberry Pi + OpenCV + TFLite + YOLOv8 + SwiftUI
Intelligent, app-controlled laser toy for cats, leveraging YOLOv8 for real-time tracking and SwiftUI for an intuitive user interface. FASTAPI server hosted on a Raspberry Pi, communicating HTTP requests between its Swift frontend server.	

SKILLS & TOOLS

Languages (Java, Kotlin, Python, Golang, Ruby), **Frontend** (React Native, Typescript, Vaadin, React.js, Three.js, OpenGL, Android), **Backend** (SpringBoot, Rails, Django, Flask), **Database** (Oracle, PostgreSQL, MySQL, MongoDB), **Cloud** (Docker, Kubernetes, OpenShift, Azure), **Tools** (AWS SQS/Lambda/S3, Apache Kafka/Airflow/Spark, Redis, Linux, Git, VS Code, IntelliJ Toolbox, Android Studio, Xcode, PL/SQL Developer, Github Actions, Jenkins, GitLab CI/CD, Pandas, Segment Analytics, Mixpanel, Selenium, Synopsys Blackduck, Linters, Maven, Datadog, JUnit, Rest APIs, GraphQL)

AWARDS & ACHIEVEMENTS

Merit Scholarships & Dean's Honour List	University of Ottawa	2020 - 2024
Certificates of Distinction CEMC	University of Waterloo	2014 - 2019

LANGUAGES

English (native), French (classroom proficiency)