

Bradley Liu

Software Engineer

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Toronto, Canada (with ability to relocate)

INDUSTRY EXPERIENCE

Wealthsimple	May 2025 - August 2025	Software Engineer Intern
<ul style="list-style-type: none">- Contributed to SpringBoot/Vaadin/Kotlin/Oracle/PostgreSQL application solution to Oracle Forms migration- Shipped features to production (services writing directly to General Ledger, pagination, UI features, JUnit tests, etc.)- Total refactor of code to utilize coroutines and channels for concurrency, increasing reliability and performance- On call duties requiring cross platform team communication leveraging Datadog, Preset, and SQL queries- Integrated Segment analytics to track user actions and Mixpanel destination source for data visualization- Implemented Jira Story Advisor application with AWS services (IAM, SQS, EKS), deployed within a Kubernetes cluster.		
Thales Group	April 2024 - December 2024	Back-End Developer Intern
<ul style="list-style-type: none">- Created command line interface tool that is automatically generated from any Swagger specification- Modified open source code (https://github.com/OpenAPITools/openapi-generator) to generate custom Go code- Built application CI/CD pipeline containerizing pipeline stages' build environments, incorporating deployed containers with linter, build, test, and Synopsys scan stages- Application shipped to customers with HSM operating system's finalized API specification		
Royal Bank of Canada	September 2023 - December 2023	Android Developer Intern
<ul style="list-style-type: none">- Implemented Android Kotlin passwordless authentication using Google's Credential Manager API within the login and register flow for RBC's Android Mobile Banking application- Created Proof of Concept by mocking backend server requests and documented implementation and limitations- Created Python script to automate and replace manual APK checklists before the Google Play Store upload eliminating developer time and optimizing developer flexibility significantly- Experimented incorporating the script within Jenkins CI/CD pipeline		
Morgan Stanley	January 2023 - August 2023	DevOps Developer Intern
<ul style="list-style-type: none">- Application containerization in a complex enterprise e-business applications environment on RedHat OpenShift- Took part in creating, teaching and hosting firmwide workshops on cloud migration- Built React.js workshop front-end site, then containerized and deployed into cloud with a new Jenkins pipeline- Incorporated automated regression Cypress testing into Jenkins CI/CD pipeline- Tested and reviewed DevOps cloud developer tools		
Computer Methods International Corp.	August 2022 - January 2023	Data Integrations Intern
<ul style="list-style-type: none">- Work in Oracle database (PL/SQL Developer) integrating new data pipelines for data mapping between partners- Wrote SQL scripts for cleaning data, debugging, and resolving database errors in the ETL process- Created Python script to replace manual setup of parameters for data pipelines- Tested RESTAPIs using Postman, and documented found errors		

EDUCATION

Honors, BSc in Computer Science w/ Data Science Minor	University of Ottawa, Canada
	April 2025 (New Grad)

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, JavaScript, HTML/CSS), **Frontend** (Vaadin, React.js, Three.js, WebGL, TypeScript, Android, SwiftUI), **Backend** (SpringBoot, Django, FASTAPI), **Database** (Oracle, PostgreSQL, MySQL, MongoDB), **Cloud** (Docker, Kubernetes, OpenShift, Azure) , **Tools** (Linux BASH, Git, VS Code, IntelliJ, Android Studio, Xcode, PL/SQL Developer, Github Actions, Jenkins, GitLab CI/CD, Jupyter Notebook, Tensorflow, PowerBI, Segment, Mixpanel, Selenium, Cypress.io, Synopsys Blackduck & Coverity, Linters, Maven, Datadog, JUnit)

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)