

# 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>- Shipped <b>production UI features</b> to bulk download tax/monthly statements and display foreign assets on <b>mobile/web</b></div><div>- Shipped <b>production backend features</b> (recording transactions to General Ledger, pagination, data ETL pipelines)</div><div>- Contributed to <b>SpringBoot/Kotlin/Oracle GL/PostgreSQL</b> application solution to <b>Oracle Forms</b></div><div>- <b>Orchestrated migration</b> from <b>Oracle</b> stored procedures to backend <b>service integrations</b></div><div>- Total refactor of code to utilize asynchronous <b>coroutines</b> and <b>channels</b>, increasing reliability and performance</div><div>- <b>On call</b> duties requiring <b>cross platform</b> team <b>communication</b> leveraging <b>Datadog</b>, <b>Preset</b>, <b>Redshift</b> and <b>SQL</b> queries</div><div>- Integrated <b>Segment</b> analytics to track user actions and <b>Mixpanel</b> destination source for data visualization</div><div>- Created Jira AI Advisor application with AWS (<b>IAM, SQS, EKS, S3</b>) and automated deployment to <b>kubernetes</b> cluster</div><div>- Developed and <b>migrated</b> trade execution features from existing service calls while <b>phasing out</b> the legacy service</div><div>- Modified <b>Airflow</b> data pipeline to include new <b>Spark</b> transformations for handling CDS tax year data with <b>S3 buckets</b></div><div>- Identified and fixed frontend mobile/web bugs by analyzing and <b>backtracking</b> backend service <b>flows</b></div></div>		
Thales Group	April 2024 - December 2024	Software Developer Intern
<div><div>- Created command line interface tool that is <b>automatically generated</b> from <b>any Swagger</b> specification</div><div>- Modified <b>open source</b> code (<a href="https://github.com/OpenAPITools/openapi-generator">https://github.com/OpenAPITools/openapi-generator</a>) to generate <b>custom Go</b> code</div><div>- Built application <b>CI/CD pipeline</b> containerizing pipeline stages' build environments, incorporating deployed containers with linter, build, test, and <b>Synopsys</b> scan stages</div><div>- Application <b>shipped to customers</b> with HSM operating system's finalized API specification</div></div>		
Royal Bank of Canada	September 2023 - December 2023	Android Developer Intern
<div><div>- Implemented <b>Android Kotlin</b> passwordless <b>authentication</b> using Google's Credential Manager <b>API</b> within the login and register flow for <b>RBC's Android Mobile Banking</b> application</div><div>- Investigated and mocked <b>backend server requests</b> and documented POC implementation and limitations</div><div>- Created <b>Python</b> script to <b>automate</b> and replace manual <b>APK</b> checklists before the Google Play Store upload eliminating developer workload by 80% and integrated within final stages of Jenkins CI/CD pipeline</div></div>		
Morgan Stanley	January 2023 - August 2023	Software Developer Intern
<div><div>- Application <b>containerization</b> in a complex enterprise <b>e-business</b> applications environment on <b>RedHat OpenShift</b></div><div>- Took part in creating, teaching and hosting firmwide <b>workshops</b> on <b>cloud migration</b></div><div>- Built <b>React</b> workshop site and <b>automated containerization</b> and production <b>deployment</b> onto <b>kubernetes</b> in Jenkins</div><div>- Incorporated <b>automated</b> regression <b>Cypress testing</b></div></div>		
Computer Methods International Corp.	August 2022 - January 2023	Software Developer Intern
<div><div>- Work in <b>Oracle database (PL/SQL Developer)</b> integrating new <b>data pipelines</b> for <b>data mapping</b> between partners</div><div>- Wrote <b>SQL scripts</b> for cleaning data, debugging, and resolving database errors in the ETL process</div><div>- Created <b>Python</b> script to replace manual setup of parameters for data pipelines</div><div>- Tested <b>REST APIs</b> using <b>Postman</b>, 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/bradley011235>)

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

Computer Vision Cat Toy	Raspberry Pi + FASTAPI + TFLite + YOLOv8 + React Native
Intelligent, app-controlled laser toy for cats, leveraging YOLOv8 for real-time tracking and React Native/Typescript for an intuitive user interface. FASTAPI server hosts on a Raspberry Pi, communicating requests between the frontend server.	

## SKILLS & TOOLS

**Languages** (Kotlin, Java, Python, Ruby, Golang), **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/Redshift, 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, JUnit, Okta, Synopsys Blackduck, Gradle, Poetry, 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)