Bradley Li

Calgary, AB

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Education

University of Calgary   Expected Graduation: April 2025

Bachelor of Science - *Major in Computer Science*
- **Cumulative GPA**: 3.8/4.0
- **Relevant Coursework**: Data Structures and Algorithms, Operating Systems, Computer Networks, Databases, Distributed Systems, Software Engineering Principles, Web Development, Machine Learning, Big Data Analytics, iOS Development

Work Experience

Full Stack Engineer Intern | *Alberta Energy Regulator*   September 2024 – Present
- Worked closely with senior engineers to engineer and deploy scalable microservices architecture for OneStop2.0 platform, contributing to system modernization initiatives.
- Optimized React Hooks and GraphQL schemas, reducing UI loading latency by **2s** and data fetching overhead by **10s**.
- Collaborated with QA developers to debug and troubleshoot **15**+ defects and remediated **10**+ security vulnerabilities through systematic root cause analysis, ensuring high-quality delivery of software.
- Implemented robust, comprehensive unit test cases using Jest achieving **90%**+ coverage for all authored codebases.
- **Technologies used**: ReactJS, NodeJS, TypeScript, GraphQL, Jest, Azure Cloud Services, Docker, Apache Kafka, Git

Software Engineer in Test Intern | *Alberta Energy Regulator*   May 2024 – December 2024
- Developed and refactored **100**+ automated functional and API test cases using Playwright while performing manual regression testing within each sprint before each UAT and prod release, identifying and reporting **30**+ defects.
- Maintained passing rates at **95%**+ for Azure DevOps pipelines through daily system monitoring and defect reporting, while implementing fixes to ensure **zero** critical/high-severity issues in user acceptance testing and production deployments.
- Identified and reported workflow inefficiencies, resulting in **100%** improvement in sprint planning effectiveness.
- **Technologies & Methodologies used**: Agile, Playwright, TypeScript, Azure DevOps, Apollo GraphQL Sandbox, Git

Mobile Application Developer Intern | *Knapsack-X*   January 2024 – April 2024
- Designed and implemented **scalable** mobile solutions, integrating Firebase for data synchronization and user authentication.
- Implemented **10**+ UI components and refactored **20**+ UI pages, improving overall UI performance by **30%**.
- Participated in **sprint planning sessions** and **daily stand-ups** by constantly identifying and suggesting improvement.
- **Technologies used**: React Native, Firebase (Cloud Firestore, Authentication), TypeScript, Figma, Git/Bitbucket

Computer Science Teaching Assistant (CPSC 449 Programming Paradigm) | *University of Calgary*   May 2023 – June 2023
- Directed bi-weekly coding sessions for **20**+ students, achieving **100%** assignment completion rate through interactive problem-solving and targeted code reviews.
- Collaborated with faculty to develop **three** assignments and **two** exams in a fast-paced and high-pressure 2-month period.
- **Course topics & Languages**: Functional and logical programming paradigms, Haskell, Prolog

Technical Projects

FlatMate – *CPSC 575 Course Project* **|** Roommate-Matching Mobile App (**GitHub**)   September 2024 – December 2024
- Led a team of **eight** to develop a roommate matching iOS app using **SwiftUI** and **Firebase,** receiving **A+** for the final mark.
- Orchestrated full software development lifecycle through weekly Agile sprints, driving successful delivery across market research, user journey mapping, UI/UX design, and E2E implementation phases while ensuring cohesive team collaboration.

LocaLoyalty – *Side Project* **|** TechStart UCalgary (**Business Website**) (**Mobile Customer Platform**)   October 2023 - Present
- Collaborated to develop a virtual loyalty program platform**,** adopted by two local businesses, Bono Coffee and Munch.
- Designed and developed APIs by following best practices and coding standards, resulting in **30%** increase in response time.

Technical Skills

- **Programming Languages**: TypeScript, JavaScript, Python, Swift, Java, C++
- **Frameworks & Libraries**: ReactJS, NodeJS, ExpressJS, SwiftUI, GraphQL, RESTful API, Jest, Playwright
- **DevOps & CI/CD & Tools**: Azure (DevOps, Cosmos DB), AWS (EC2, S3, Lambda), Docker, Kubernetes, GitHub Actions
- **Databases**: SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis, Firebase Firestore)