

# Yves Alikalfic

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## Skills

**Programming Languages:** JavaScript, TypeScript, Python, Java, C, MATLAB, SQL

**Frameworks:** React, React Native, Expo, Express.js, Flask, Django, Firebase, Bootstrap

**Technologies:** Node.js, REST APIs, GraphQL, HTML/CSS, MongoDB, Pandas, NumPy, Selenium, Git, Xcode, scikit-learn

**DevOps:** Bash, GitHub Actions, Jenkins, Azure

## Experience

**Quality Assurance Automation Engineer**, Rakuten Kobo – Toronto, ON

Sep 2024 – Aug 2025

- Boosted automated test coverage by 50% on iOS/Android apps by developing 300+ tests using TypeScript and Appium
- Reduced manual regression testing time by 40% by building and integrating 3 CI/CD pipelines in GitHub Actions
- Delivered real-time automation coverage reports by building a Claude AI-powered TypeScript tool

**Cloud Technical Analyst**, CIBC – Toronto, ON

May 2024 – Aug 2024

- Ranked in top 10% of interns and selected for CIBC Spark program to present legacy system solutions to executives
- Analyzed and remediated network security policy gaps that exposed 2,000+ employees at CIBC Square to potential risks
- Collaborated with vendors to establish 200+ remote locations, accelerating secure connection workflows across region

**Software Developer**, Pantree – Kingston, ON

Sep 2023 – Apr 2024

- Developed a React Chrome extension, enabling 30+ users to track food expiry and receive alerts, reducing food waste
- Increased user retention by 20% with Twilio SMS notifications, as shown by returning users' data in the 30 day periods
- Reduced account creation time by 30% using Firebase authentication, monitored via Google Analytics

**Teaching Assistant**, Queen's University – Kingston, ON

Jul 2023 – Apr 2024

- Assisted 200+ students in System-Level Programming, Software Specifications, and Digital Societies
- Reviewed 2,000+ lines of Bash and C code weekly, leading to a 3% average improvement in student assignment scores
- Increased assignment scores by 9% with weekly Teams office hours for student inquiries, as evidenced by participants

## Projects

**Personalized Gifting App** | React Native, Python, Flask, scikit-learn, MongoDB, Firebase

[github.com/yves-a/sift](https://github.com/yves-a/sift)

- Developed a mobile and web application that generated 60 sales from a user base of 1,300+, by providing personalized gift recommendations using a K-means clustering algorithm to analyze user preferences and behavior
- Increased user engagement by 1.75x, as measured by session duration and daily active users, by implementing an interactive swiping feature, inspired by its success in apps like Tinder, into the app's user interface with React Native

**AI Medical Training Simulation Agent** | React, Python, Cohere AI, pyttsx3

[github.com/yves-a/annie-chat-bot](https://github.com/yves-a/annie-chat-bot)

- Engineered a medical simulation chatbot, enhancing doctor-patient interactions by leveraging Cohere AI to provide accurate responses to doctor inquiries, and responding through text-to-speech using pyttsx3
- Developed a vitals monitoring system by integrating lab sensors with the chatbot via Bluetooth API, enabling real-time vitals tracking for doctors, and improving medical student's response time by 40% in lab trials

## Extracurricular

**Software Developer**, Queen's Technology & Media Association – Kingston, ON

2022 – 2024

- Led a select team of four developers to design and launch Pantree, clinching first place in a prestigious product innovation competition, hosted and judged by local successful entrepreneurs in Kingston
- Enhanced the club's technical capabilities by leading a technical hiring process of over 50 applicants

## Education

**Queen's University** – Bachelor of Computer Science

Expected May 2026

- **GPA:** 4.13/4.3
- **Awards:** Dean's Honour List (2021, 2022, 2023), Principal's Scholarship (2021, Top 5% of incoming class)