

# Yves Alikalfic

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<https://yves-a.herokuapp.com/>

## Education

### Queen's University

*Bachelor of Computing (Honours) in Software Design*

Sep 2021 – Apr 2025

Kingston, ON

- **Relevant Coursework:** Data Structures, OOP in Java, Algorithms, Operating Systems
- **Awards:** Dean's Honour List x2
- **GPA:** 4.16/4.3

## Experience

### Queen's University

*Teaching Assistant*

July 2023 - Present

Kingston, ON

- Evaluated an average of 2000 lines of code of Bash and C weekly, providing comprehensive feedback that consistently resulted in a 3% average increase in subsequent assignments
- Hosted weekly office hours via Teams to address student questions, which resulted in a 9% average improvement in assignment scores for participating students
- Offered guidance for over 200 students on complex Linux, C, Bash and ethical issues through email inquiries that significantly contributed to their academic success

### Queen's Tech and Media Association

*Senior Software Developer*

Apr 2022 - Present

Kingston, ON

- Currently leading a team to release a Chrome extension built with React and TypeScript, coupled with a serverless backend in Firebase after raising \$750 from investors

*Software Developer*

Kingston, ON

- Won first in a club-wide product competition, by working in a team of 10 to develop a gift recommendation mobile and web app named Sift using React Native and React
- Raised over \$1,200 from investors for the mobile app by developing a comprehensive business plan that included, problem validation, a go-to-market strategy, a market analysis and numerous marketing initiatives

### Queen's University Algorithmic Network and Trading Team

*Algorithm Developer*

Sep 2021 - Mar 2022

Kingston, ON

- Developed a successful trading algorithm in Python with a 31% return since 2021, while working with a team of 5
- Lead a research team of two members that resulted in a beta of 0.095 by integrating Risk Parity Asset Allocation and maximum diversification

## Projects

**Sift** | React, React Native, Python, Flask, scikit-learn, MongoDB, Firebase | Website

Sep 2022 – Present

- Developed a mobile and web application that generated over 60 sales each ranging from 1%-20% of the purchase price of recommended gifts by seamlessly integrating with Amazon
- Garnered a user base of over 1,300 for various beta releases on TestFlight by targeting relevant audiences during important gift-giving seasons across Queen's campus
- Increased user's time spent on the application by over 1.75x as measured by session duration by optimizing the recommendation algorithm using k-means clustering to personalize recommendations

**Medical Record Application** | React, TypeScript, Node.js, HTML/CSS | GitHub

May 2022 – Present

- Built a web app that allows doctors to handle diagnoses and basic health information of over 130 patients
- Ensured proper functionality of data integration by writing Jest unit tests for new patient entries and diagnoses, validating the reliability and accuracy of the system

**Reminiscing Record Player** | React, Node.js, JavaScript, HTML/CSS, Cypress | GitHub

Jun 2022 – Jul 2022

- Developed a web app with over 2,000 users, that shows users' listening history from Spotify API
- Designed a responsive web application that used media queries and flexible layouts that received a score of 100 from Google Lighthouse for Accessibility, Best Practices and SEO

## Skills

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

**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:** GitHub Actions, CI/CD, Bash