

# 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
- **GPA:** 4.2/4.3

## Experience

### Queen's Tech and Media Association

*Senior Software Developer*

Apr 2023 - Present

Kingston, ON

- Currently leading a team of 4 developers to work alongside 4 business analysts, and a project manager to secure funding from investors and develop an application for public release

### Queen's Tech and Media Association

*Software Developer*

Apr 2022 - Apr 2023

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 and React Native
- Raised over \$1200 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

- Built a profitable trading algorithm that produce over a 31% return since its launch in 2021 by collaborating 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 1200 for various beta releases on TestFlight by targeting relevant audiences during important gift-giving seasons across Queen's campus
- Increased users' 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

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

Jun 2022 – Jul 2022

- Developed a web app hosted on Heroku with over **1,000 page views**, 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
- Implemented a CI/CD pipeline that used GitHub Actions to tag every release before being hosted

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

May 2022 – Jun 2022

- Built a web app that allows doctors to handle diagnoses and basic health information of their patients, by using action creators in Redux
- Developed a responsive web application that received a score of **100** from Google Lighthouse for Accessibility, Best Practices and SEO by using adaptive layouts and grids

### Product Price and Quantity Monitor | *Python, Flask, SQLAlchemy* | GitHub

Nov 2021 – Jan 2022

- Engineered a Flask app that can handle **100+ concurrent users**, that allows users to view the price and quantity of a given product
- Developed a Discord bot through Python that offers a user interface that can handle requests from various servers
- Utilized a REST API that allowed the Flask app to communicate between the user and the SQL database

## 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