

Yves Alikalfic

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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 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 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

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