Yves Alikalfic

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

Education

Queen's University   Sep 2021 — Apr 2025
Bachelor of Computing (Honours), Computer Science with Specialization in Software Design   *Kingston, ON*
- **Relevant Coursework:** Data Structures, OOP in Java, Algorithms, Operating Systems
- **Awards:** Dean's Honour List x2
- **GPA:** 4.16/4.3

Skills

Programming Languages: Python, Java, C, JavaScript, TypeScript, MATLAB, SQL, C++, C#
Frameworks: React, React Native, Expo, Flask, Django, JSON, Firebase, Bootstrap
Technologies: Node.js, REST APIs, GraphQL, HTML/CSS, MongoDB, Pandas, NumPy, Selenium, Git, scikit-learn, AWS
DevOps: GitHub Actions, CI/CD, Bash

Experience

Queen's University   July 2023 - Present
Teaching Assistant   *Kingston, ON*
- Enhanced student performance by evaluating 2,000+ lines of Bash and C code weekly, resulting in a consistent 3% average improvement in subsequent assignment scores
- Conducted weekly office hours via Teams to proactively address student questions, leading to a commendable 9% average enhancement in assignment scores for participating students
- Significantly contributed to academic success by providing detailed guidance to over 200 students on complex Linux, C, Bash, and ethical issues through impactful email interactions

Queen's Tech and Media Association   Apr 2022 - Present
Senior Software Developer   *Kingston, ON*
- Currently managing the development of a React and TypeScript Chrome extension with a serverless Firebase backend, leading a team and securing $750 from investors

Software Developer   *Kingston, ON*
- Secured first place in a club-wide competition by collaborating with a team of 10 to develop Sift, a gift recommendation mobile and web app 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   Sep 2021 - Mar 2022
Algorithm Developer   *Kingston, ON*
- Achieved a 31% return since 2021 by working with a team of 5 to develop a successful Python trading algorithm
- 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 from a user base of over 1,300
- 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

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