

Yves Alikalfic

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Education

Queen's University

Sep 2021 – Apr 2025

Bachelor of Computing (Honours) in Software Design

Kingston, ON

- **Relevant Coursework:** Data Structures, OOP in Java, System Level Programming, Computer Architecture, Software Specifications
- **Awards:** Dean's Honour List
- **GPA:** 4.18/4.3

Projects

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

Stock Trading Algorithm | *Python, Pandas, NumPy, QuantConnect* | GitHub

Sep 2021 – Apr 2022

- Developed a Python trading algorithm that grew on average year over year by **16.25%** from 2009
- Implemented the Short-Term Reversal Trading Strategy through QuantConnect
- Integrated Risk Parity Asset Allocation that minimized risk, using the maximum diversification method

Leadership/Activities

Queen's Tech and Media Association

Apr 2022 - Present

Software Developer

Kingston, ON

- Won **first place** in a club wide product competition, by working in a team of 10 to develop a gift recommendation mobile app in React Native
- Implemented Firebase for user authentication and Flask as a backend to handle requests and to integrate a NoSQL database in MongoDB
- Engineered a machine learning algorithm in scikit-learn to analyze user's activity and recommend the best possible gifts

Queen's University Algorithmic Network and Trading Team

Sep 2021 - Mar 2022

Algorithm Developer

Kingston, ON

- Collaborated to produce a profitable trading algorithm, alongside a team of five and competed against 13 teams
- Lead a research team of two members that resulted in the successful integration of Risk Parity Asset Allocation and maximum diversification

Skills

Programming Languages: Python, Java, C, JavaScript, TypeScript, 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