

Yves Alikalfic

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Education

Queen's University

September 2021 – April 2025

Bachelors 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

June 2022 – July 2022

- Developed a web app 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 passes Google's Mobile-Friendly test, and 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 on Heroku

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

May 2022 – June 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 flexible layouts and grids

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

November 2021 – January 2022

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

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

September 2020 – April 2021

- 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

April 2022 - Present

Software Developer

Kingston, ON

- Working on a product team alongside other developers to define and implement technical responsibilities
- Creating a full-stack application to be launched to the public using React and Node.js

Queen's University Algorithmic Network and Trading Team

September 2021 - March 2021

Algorithm Developer

Kingston, ON

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

Silverthorn Basketball

September 2019 - March 2020

Team Captain

Toronto, ON

- Lead the team to the provincial championship tournament for the first time in over 10 years
- Increased team attendance at trainings and games that led to a **2nd** place finish in Toronto

Skills

Programming Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks: React, React Native, Express.js, Flask, Django, Bootstrap

Technologies: Node.js, REST APIs, GraphQL, SQLAlchemy, MongoDB, Pandas, NumPy, Selenium, Git, xCode

DevOps: GitHub Actions, CI/CD

Languages: English, French, Bosnian, Croatian, Serbian