Ivan Samardzic

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https://github.com/ivansamardzic

Education

Queen's University   Sep 2021 — Apr 2025
Bachelor of Applied Science in Computer Engineering   *Kingston, ON*
- **Relevant Coursework:** Data Structures, OOP in Java, Algorithms, Operating Systems
- **Awards:** Principal Scholarship
- **GPA:** 3.4

Experience

Queen's University   July 2023 - Present
Teaching Assistant   *Kingston, ON*
- Currently in charge of 30 students, supporting classroom instruction and activities for System Level Programming
- Effectively supervised and guided a cohort of 30 students enrolled in the Digital Societies course, fostering a dynamic learning environment and facilitating discussions on key technological topics and ethical considerations

Queen's Tech and Media Association   Apr 2022 - Present
Senior Software Developer   *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

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 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   Sep 2021 - Mar 2022
Algorithm Developer   *Kingston, ON*
- Built a profitable trading algorithm that produce over a 31% return since 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 by seamlessly integrating with Amazon
- Garnered a user base of over 1,200 for various beta releases on TestFlight by targeting relevant audiences during important gift-giving seasons across Queenś 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