# Ivan Samardzic

647-620-5408 | ivan.samardzic7@gmail.com | https://www.linkedin.com/in/ivansamardzic/ |
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** — September 2023 - Present
*Teaching Assistant - Introduction to Programming for Engineers* — *Kingston, ON*
- Currently in charge of 350 students, supporting classroom instruction and activities for an introductory C course
- Effectively supervised and guided a cohort of 350 students enrolled in the course, fostering a dynamic learning environment and facilitating discussions on key technological topics and ethical considerations

**Sport Check** — October 2019 - August 2021
*Footwear Sales Advisor* — *Toronto, 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