

# Ivan Samardzic

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## 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, Computer Architecture, Data Analytics
- **Awards:** Principal Scholarship
- **GPA:** 3.4

## Experience

### Queen's University

Sep 2023 - Present

*Teaching Assistant - Introduction to Programming for Engineers*

Kingston, ON

- Supported large class instruction: Assisted in teaching a high-enrollment "Introduction to Programming for Engineers" course with 800 students, providing hands-on guidance during weekly lab sessions to enhance student learning.
- Evaluated student progress: Played a key role in grading and providing feedback on coding assignments, assessing student understanding of introductory C language concepts, and contributing to their skill development.
- Enhanced communication and teamwork: Collaborated effectively with course instructors, faculty, and 26 fellow teaching assistants to ensure a cohesive learning environment and consistent support for students.

### Sport Check

Oct 2019 - Aug 2021

*Footwear Sales Advisor*

Toronto, ON

- Expert Sales Advisor: Leveraged in-depth department knowledge to provide personalized recommendations to numerous customers at Sport Chek, spanning various footwear types and brands, ensuring customers received tailored solutions.
- Customer Satisfaction: Identified and addressed customer needs, achieving a 92% customer satisfaction rating based on post-purchase surveys and feedback, showcasing a strong commitment to customer service.
- Workplace Skills Development: Thrived in a fast-paced environment, cultivating valuable skills in teamwork, responsibility, and patience, contributing to a positive and productive workplace dynamic.

## 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 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 Queen's 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