

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

Handwritten Digit Recognition | Python, Keras, Tensorflow, Tkinter, MNIST | GitHub

Sep 2023 – Present

- Completed a Python-based deep learning project for handwritten digit recognition using Convolutional Neural Networks
- Utilized the MNIST dataset consisting of 60,000 training images and 10,000 testing images to train and evaluate the model
- Developed a graphical user interface application using the Tkinter library for drawing digits and predicting them with the trained model
- Achieved an 88% success rate with the trained model, demonstrating its effectiveness in accurately identifying handwritten digits.

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, MATLAB, SQL, C++, C#, Assembly

Frameworks: React, React Native, Tensorflow, Keras

Technologies: HTML/CSS, Pandas, NumPy, Git

DevOps: GitHub Actions, CI/CD, Bash