## Nicholas Saroiu

nsaroiu@hotmail.com — Cell: (206) 939-9398

## EDUCATION

2022-2026 **Honours Bachelor of Science**, Computer Science (ASIP Co-op)

University of Toronto, Faculty of Arts and Science, Toronto, Canada

## WORK/VOLUNTEER EXPERIENCE

JUNE 2024 Frontend Developer

— Present Toronto, Ontario

Building a frontend UI that displays information about home battery systems. Developing as a volunteer for a

small team of independent programmers. Using .NET for the UI.

JAN 2024 TrackOne Project Developer

— Present University of Toronto Web Dev Club, Toronto, Ontario

Developing a comprehensive website for the University of Toronto (UofT) TrackOne Engineering program

on behalf of the UofT Web Dev club. Working as part of a small team of five developers. Using React.js for

the frontend and Express.js for the backend.

JUL 2021 Dental Software Data Conversion Specialist

— Jun 2022 Advanced Dentistry at Century Square, Seattle, Washington

Converted dental data across two dental practice software management packages. Duties included transfer of

doctor notes, tooth charts, and health histories.

APR 2020 Odle Advanced Programming Club Founder

— MAY 2022 Odle Advanced Coding Club, Bellevue, Washington

Co-founded a middle school club for competitive programming. Designed a rigorous curriculum teaching

advanced Java topics such as binary trees, hash tables, and graphs. Scheduled the club during the pandemic.

**PROJECTS** 

MAY 2024 Patient Portal Backend

Developed a secure Backend REST API that supports CRUD operations on a dental patient database. API

was written using the Django REST framework in Python.

Nov 2023 TTC Tracker

https://github.com/nsaroiu/TTC-Tracker

Developed a web application that tracks real-time Toronto TTC vehicle locations and offers arrival time predictions to users. Frontend was written using React.js, and Backend was written using Java Spring Boot.

Data is pulled directly from the TTC's open feed.

JUL 2023 Niniboard VI: Custom 3D-Printed Keyboard

https://nicholassaroiu.com/pages/projects#niniboard-v1

Designed and built a custom 3D-printed keyboard with a novel one-handed design shaped specifically for my

hand. Used various tools such as Fusion360 and ZMK in order to build the prototypes.

APR 2023 Guess Who? Decision Tree Bots

https://github.com/nsaroiu/GuessWho

Built five different AI players for the game of Guess Who using five decision tree algorithms (ID3, CART, C4.5,

Chi-Square Automatic Interaction Detection, and Reduction in Variation). Implemented a UI using Python.

Programming Skills

Python, Java, C, Go, Javascript, C#, React.js, Spring Boot, Django, HTML/CSS, .NET, Git, LaTeX, MIPS Assembly

Relevant Coursework

**Past:** Software Design; Data Structures and Analysis; Software Tools and Systems Programming. **Current:** Introduction to Machine Learning; Algorithm Design, Analysis & Complexity; Neural Networks and Deep Learning.