Nicholas Saroiu

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EDUCATION

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

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

PROJECTS

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 V1: 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, C_{4.5}, Chi-Square Automatic Interaction Detection, and Reduction in Variation). Implemented a UI using Python.

DEC 2020 Backend for Controlling an LED Strip Written in Go

https://github.com/nsaroiu/LED_Strip_Backend

Developed a backend script using Go in order to control the color of a strip of LED lights. Script passed RGB values from HTTP requests into an Arduino connected to the LED lights.

Work/Volunteer Experience

JAN 2024 TrackOne Project Developer

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

Developed a comprehensive website for the University of Toronto (UofT) TrackOne Engineering program on behalf of the UofT Web Dev club. Worked as part of a small team of five developers. Used 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.

JUL 2021 Summer Program Teaching Aide

UW Robinson Center for Young Scholars, Seattle, Washington

Served as a Teaching Aide for Physics of Robotics course. Supervised high school freshmen, graded homework, and answered various physics and robotics-related questions.

Programming Skills