

# NICHOLAS SAROIU

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## EDUCATION

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2022-2026 **Honours Bachelor of Science**, Computer Science (*ASIP Co-op*)  
University of Toronto, Faculty of Arts and Science, Toronto, Canada

## PROJECTS

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- 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. Data is pulled directly from the TTC's open feed.
- JUL 2023 **Niniboard V1: Custom 3D-Printed Keyboard**  
<https://nicholassaroiu.com/pages/projects.html#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 different decision tree algorithms (ID3, CART, C4.5, 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](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

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- JUL 2021 — JUN 2022 **Dental Software Data Conversion Specialist**  
*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 — MAY 2022 **Odle Advanced Programming Club Founder**  
*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 Covid-19 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

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Python, Java, Go, Javascript, React.js, Node.js, HTML/CSS, Git, LaTeX, MIPS Assembly