

# NICHOLAS SAROIU

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## OBJECTIVE

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Building and learning are my two passions. I hope you give my application your full consideration.

## EDUCATION

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- 2022-2026 **Honours Bachelor of Science**, Computer Science  
University of Toronto, Faculty of Arts and Science, Toronto, Canada
- 2018-2022 **High School Diploma**  
Interlake High School, Bellevue, WA
- 2020-2021 **International Baccalaureate Programme Diploma**  
Interlake High School, Bellevue, WA

## PROJECTS

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- JUL 2023 **Niniboard V1: Custom 3D-Printed Keyboard**  
<https://nicholassaroiu.com/pages/projects.html#niniboard-v1>  
Designed and built several mechanical keyboards that are still used by my friends and family. The most complex one was 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.
- SEP 2022 **Personal Site**  
<https://nicholassaroiu.com/>  
Built a personal site to showcase some of my projects. Added mobile view to increase readability of site on mobile devices.
- NOV 2021 **Niniergo Split: Custom Keyboard for My Hand**  
— AUG 2022 [https://github.com/nsaroiu/zmk/tree/main/app/boards/shields/niniergo\\_split](https://github.com/nsaroiu/zmk/tree/main/app/boards/shields/niniergo_split)  
Designed and built several mechanical keyboards that are still used by my friends and family. The most complex one was a custom keyboard with a novel ergonomic design shaped specifically for my hand. Used various tools such as Ergogen, KiCAD, and ZMK in order to build the prototypes.
- DEC 2020 **Backend for Controlling an LED Strip Written in Go**  
— APR 2021 <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.
- SUMMER 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

## PERSONAL INFORMATION

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Double Citizenship: USA and Canada