

# JACK NAIMER

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## EDUCATION & TRAINING

- Engineering Science – Machine Intelligence Major**, University of Toronto 2021-ongoing
- Certificate**, Math and Computer Science (MaCS) enriched high school program, William Lyon Mackenzie Collegiate Institute 2017-2021
- High School Diploma**, William Lyon Mackenzie Collegiate Institute 2021

## WORK EXPERIENCE

- Data Science Intern, Marsh New York Office.** June-August 2023  
Developing machine learning and statistical models to improve risk analysis and forecasts for Marsh clients.  
Focused on risk analysis in the healthcare space, developing new machine learning models to assess risks of healthcare organizations.
- Research Student, SickKids Hospital** with Dr. Sasha Litwin. May-June 2023  
Developing an AI chatbot designed to answer a parent's questions about how to manage their child's fever, preventing unnecessary ER visits
- Research Student, Dr. Mike Fralick's Lab, Mount Sinai Hospital.** May 2022-May 2023  
Developing AI tools for healthcare.

### Projects

- | <b>ChatBotMD</b>  | <b>Medical Literature Tool</b>   | <b>jrnowl.com</b>  |
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| <ul style="list-style-type: none"><li>Created AI chat bot from scratch for doctors to use in the field</li><li>Developed custom decision-making algorithms</li><li>Created chat bot website from scratch, set up networking, and run on AWS server with NGINX</li><li>Sole programmer</li></ul> | <ul style="list-style-type: none"><li>Created AI tool to inform doctors of advances in medicine</li><li>AI tool finds relevant medical publications and gives concise summaries</li><li>Created react-js website</li><li>Sole programmer</li></ul> | <ul style="list-style-type: none"><li>Using ML to automatically find journal publishing guidelines from medical journal websites for use on jrnowl.com</li></ul> |

- Bike Service Technician**, Skiis & Biikes. Serviced and repaired bicycles, trouble-shoot issues, communicate with customers. May-Sept 2021
- Sales**, Gears Bike Shop Leaside. Direct customer service, worked the cash. June-Oct 2020
- Hockey Referee**, Forest Hill Hockey Association. 2017-2020
- Camp Counsellor**, Green Acres Day Camp. Led team activities and took care of children aged 5-8 years. Summer 2019

## EXTRACURRICULAR & VOLUNTEER EXPERIENCE

- Academic Director & Academic Paper Read Group Mentor**, University of Toronto Machine Intelligence Student Team (UTMIST). Sept 2022-May 2023  
Lead monthly lectures explaining complex machine learning papers and topics in an easy-to-understand way. Topics taught include CNN, ConvNext, GNN, Variational Autoencoder, Attention, Transformer, etc.

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<b>Software Team Member</b> , University of Toronto Design League Robodog Team. Responsible for inverse kinematics, and gait programming using ROS.	2022
<b>Competition Team Member</b> , University of Toronto Concrete Toboggan Design Team.	2021-2022
<b>Satirical Newspaper Co-President</b> , William Lyon Mackenzie Collegiate Institute.	2020-2021
<b>Math Peer Tutor</b> , William Lyon Mackenzie Collegiate Institute.	2019-2021
<b>Math and Computer Science (MaCS) Program Peer Mentor</b> , William Lyon Mackenzie Collegiate Institute.	2020-2021

## TECHNICAL SKILLS

- Python, Julia, C, C++, Java, Matlab, Linux, ROS, Docker, HTML, CSS, SolidWorks
- Deep Learning, PyTorch and Flux Deep Learning frameworks, NLP, Transformer Models
- Self-learned Gilbert Strang's Course: Matrix Methods in Data Analysis, Signal Processing, and Machine Learning, MIT OpenCourseWare (2021)
- University of Toronto Machine Shop Certification (2021)

## AWARDS & ACHIEVEMENTS

<b>BioTalent Health and Biosciences Student Work Placement Wage Subsidy</b> , For summer research in Dr. Mike Fralick's Lab.	2022
<b>Admission Scholarship</b> , Faculty of Applied Science and Engineering, University of Toronto. \$2000	2021
<b>Advanced Placement (AP) Credits</b> , Achieved 5/5 score in Computer Science A (2019) and Calculus AB (2021)	
<b>DECA Provincial Finalist &amp; Case Award</b> , Business Finance Series	2021
<b>Honourable Mention</b> , Queen's Model United Nations Conference	2021
<b>3<sup>rd</sup> Place</b> , LyonHacks Hackathon, William Lyon Mackenzie Collegiate Institute	2021
<b>DECA Regional Top 60</b> , Business Finance Series	2020
<b>Taekwondo Black Belt</b>	2020

## HOBBIES

<b>Mountain Biking</b>	Daily rides in Toronto's Don Valley trails summer through winter.
<b>Guitar</b>	Weekly lessons from age 6-18. Practice frequently, enjoy jamming with friends.
<b>Martial Arts</b>	Brazilian Jiu Jitsu weekly lessons at The University of Toronto. Taekwondo Black Belt and dedicated to personal practice.
<b>Swing Dancing</b>	Participate in weekly lessons and social swing dances to live jazz music.
<b>Ultimate Frisbee</b>	University of Toronto intramurals. Played daily in high school.
<b>Hockey</b>	Participate in local pick-up games several times per week. Goalie and referee at Forest Hill Hockey Association until 2020.