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# CHRIS MELENDEZ
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## Experience

### Software Developer 2

Varian Medical Systems                                            May 2021 - July 2023

- Spearheaded the development of 10+ full-stack features (Angular and Java) with an Agile team of 6 and implemented corresponding unit and API tests
- Developed internal tools that optimized date and timezone testing, linting, generators, and localization, increasing bug detection and prevention and saving SQA and development time by 50%
- Resolved 40+ bugs and defects by refactoring parts of the app to maintain clean and organized code standards, optimized lookup calls, better visualization and saved development time by at least 30%
- Led research and analysis of integrating external services for a feature that would improve 20% of data entry time

### Programming Tutor

International College of Manitoba                                      Sep 2020 - Dec 2020

- Managed and assessed labs and assignments for 80+ students in an introductory programming course in Python

### Innovation Lab Application Developer 1

Wawanesa Insurance                                                Jan 2020 - Aug 2020

- Designed the architecture and database of 5 innovative projects and implemented APIs, backend and frontend with Nodejs, AWS and React
- Developed the frontend of an application using Google Maps API to identify potential clients for brokers
- Built the distributed functionality of a billing chatbot using Serverless, WebSockets and AWS-SNS

### Robot Programmer Volunteer

Autonomous Agents Lab                                             Sep 2018 - Mar 2020

- Designed a new architecture that allowed the two teams in the lab to collaborate using the same code in different robots, saving development time and increasing collaboration by 60%
- Led Snobots-Kid team to compete at FIRA2019 in South Korea, accomplishing 4th place overall, improving previous years' scores
- Accomplished 2nd place at IROS2019 - Humanoid Application Challenge "Robot magic and music" in Macau

### Undergraduate Research Student

Autonomous Agents Lab                                             May 2018 - Aug 2018

- Programmed a robot using Python, C++, ROS, and OpenCV to take part in robotics competitions, accomplishing 4th place all-round in the kid-size category at FIRA RoboWorld Cup 2018 in Taiwan

## Education

### B.Sc. in Computer Science

University of Manitoba, 2021. Focus: Software Engineering, Computer Graphics, Artificial Intelligence

### Projects (see *website* for more)

- ***Raven***: A support network that helps new immigrants in their first 6 months abroad. Developed in React and deployed in AWS
- ***Spotitool***: An Angular application that organizes favorite Spotify songs into new playlists saving the user 2+ hours of manual work

## Languages and Technologies

React, Angular, Java, JavaScript, TypeScript, HTML, CSS, NodeJS, Python, C++, OpenCV, Jest, Cypress, OpenGL, MySQL, AWS (Amplify, Cognito, DynamoDb, Lambda, API Gateway, SNS),  Serverless, NoSQL, MongoDB, Express, Android Studio