

Chris Melendez

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EDUCATION

UNIVERSITY OF MANITOBA

BSc IN COMPUTER SCIENCE

Sep 2015 - May 2021 | Winnipeg, MB, Canada

SKILLS

PROGRAMMING

Used often:

Angular • Java • JavaScript • NodeJS • Python • React
OpenCV

Used sometimes:

Bootstrap • C • C++ • CSS • OpenGL

Familiar:

Assembly • Csharp • Ethereum • MySQL • Ruby

TOOLS

Android Studio • AWS (DynamoDB, SNS, Lambda, API
Gateway) • Blender • GIT • JetBrains • Jira • Serverless
Unity • VSCode

PROJECTS

CRYPTO-QUIDDITCH

Exploring blockchain development by building a card exchange decentralized application in Ethereum. Final project for Distributed Computing course. Used React for the frontend.

FABRIK

A final project for my Computer Graphics course that explored "Forward and Backwards Reaching Inverse Kinematics" in OpenGL.

FACETOOL

A small Facebook tool that helps to easily dislike large lists of liked pages. Used technologies: ReactJS and Facebook Graph API.

PIANOPLAYER

Intelligent Mobile Robotics course project. A program that detects where a piano is so the robot can position its hands with inverse kinematics to be able to play some tunes

SPOTITOOL

Created an Angular application that organizes your favorite Spotify songs into new playlists

SYNCSTREAM

Software Engineering project that uses Google Maps and Spotify to locate users and show what they are currently listening to

WORK EXPERIENCE

SOFTWARE DEVELOPER | VARIAN MEDICAL SYSTEMS

May 2021 - Present | Winnipeg, MB, Canada

- Full stack implementation of features and resolution of bugs for better visualization of medication orders and smoother user experience of the system
- Developed an internal feature that optimized date and timezone testing, increasing bug detection by 50% and saving QA and development time

PROGRAMMING TEACHING ASSISTANT |

INTERNATIONAL COLLEGE OF MANITOBA

Sep 2020 - Dec 2020 | Winnipeg, MB, Canada

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

APPLICATION DEVELOPER 1 | WAWANESA

INNOVATION LAB

Jan 2020 - Aug 2020 | Winnipeg, MB, Canada

- Designed the architecture and database of 5 projects and implemented their APIs, backend and frontend
- Developed the frontend of an application using React with Google Maps API to identify potential clients for brokers
- Built the distributed functionality of a billing chatbot using Serverless, websockets and AWS-SNS
- Created a car-crash detection application using Android Studio. This app assists users after an accident

UNDERGRADUATE RESEARCH ASSISTANT |

AUTONOMOUS AGENTS LAB @ UOFM

May 2018 - Aug 2018 | Winnipeg, MB, Canada

- Programmed a competitive robot using Python, C++, ROS, and OpenCV to compete in different robot-sports
- Accomplished 4th place all round in the kid-size category at FIRA RoboWorld Cup 2018 in Taiwan

VOLUNTEERING

ROBOT PROGRAMMER | AUTONOMOUS AGENTS LAB

Sep 2018 - Mar 2020 | Winnipeg, MB, Canada

- Trained 4 new lab members and organized orientation days
- Designed a new architecture that allowed the two teams in the lab to collaborate using the same code in different robots, saving development time by 50
- Lead Snobots-Kid team to compete at FIRA2019 in South Korea, accomplishing a 4th place over all sports, improving previous years' scores
- Accomplished 2nd place at IROS2019 - Humanoid Application Challenge "Robot magic and music" in Macau