

Chris Melendez

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Technical Skills

Frontend: React, Angular, HTML, CSS, JavaScript, TypeScript

Backend: Java, NodeJS, Python, C++

Cloud & DevOps: AWS (Amplify, Cognito, DynamoDB, Lambda, API Gateway, SNS), Serverless, Microsoft Azure

Testing: Jest, Cypress, JUnit

Databases: MySQL, NoSQL, MongoDB

Other Tools: Redux, OpenGL, Express, Android Studio, OpenCV, Vercel

Experience

STEM Instructor

Zen Maker Lab

Dec 2024 - Present

- Teaching STEM courses focused on science, electronics and programming to K-12 students in after-school and academy programs
- Mentored a team of 10+ kids to compete at FIRST Robotics 2025 Competition, BC, placing 20th place out of 48 teams

Co-founder

Raven - Support Network

Jul 2023 - Present

- Designed and implemented 20+ full-stack features using React and NodeJS on AWS
- Created an intuitive UX and system architecture for a support network web app and landing page, improving client communication efficiency
- Integrated payment processing and subscription services using Stripe API

Software Developer 2

Varian Medical Systems

May 2021 - Jul 2023

- Developed 10+ full-stack features with Angular, Java, MySQL, and TypeScript in an Agile environment, implementing APIs with comprehensive unit (JUnit) and UI (Cypress) tests
- Built internal tools to optimize timezone testing, linting, and localization, increasing bug detection efficiency by 50%
- Led integration of an external data entry service, reducing user input time by 20%, through cross-functional collaboration with developers, project managers, and third-party vendors

Programming Instructor

International College of Manitoba

Sep 2020 - Dec 2020

- Facilitated and assessed labs and assignments for 80+ students in an introductory programming course in Python
- Earned recognition for delivering engaging and practical teaching methods, leading to an invitation to conduct two workshops in the following year

Innovation Lab Application Developer 1

Wawanesa Insurance

Jan 2020 - Aug 2020

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

Robot Programmer

Autonomous Agents Lab

May 2018 - Mar 2020

- Programmed humanoid robots using Python, C++, ROS, and OpenCV, specializing in computer vision and motion programming
- Achieved top 5 rankings in competitions in Taiwan, South Korea, and Macau, competing against 50+ global teams
- Streamlined lab workflows by designing a new architecture enabling shared code across robots, reducing development time by 60%

Education

Bachelor of Science in Computer Science | *Graduated 2021*

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