

# Allen Reinoso

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## Education

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**Toronto Metropolitan University** (Formerly Ryerson University)

Bachelor of Science (Honours), Computer Science — Co-op Program

Toronto, ON

Sept 2023 – Expected April 2028

- Cumulative GPA: 3.81 / 4.33 (Dean's List equivalent)
- Relevant Coursework: Operating Systems, Data Structures and Algorithms, Software Development, Database Systems, Computer Security, Artificial Intelligence
- Available for 12-16 month internship starting May 2026

## Technical Skills

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**Languages:** Java, Python, TypeScript, JavaScript, C, C++, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Flask, D3.js

**Tools & Technologies:** Git, GitHub, Docker, MongoDB, SQLite, REST APIs

**Core CS Fundamentals:** Operating Systems, Data Structures, Algorithms, Object-Oriented Programming, Software Development Life Cycle (SDLC), Agile Methodologies

## Professional Experience

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**Web Development Lead** — Toronto MetRobotics

Toronto, ON

Sept 2024 – Present

- Developed and maintained a React dashboard supporting real-time robotics telemetry visualization and operational decision-making for the University Rover Challenge.
- Engineered data processing pipeline using Python and JavaScript to parse and display live sensor data transmitted via ROS2, ensuring accurate real-time monitoring.
- Took full ownership of feature development lifecycle from requirements gathering through deployment, maintaining code quality standards and reliability.
- Mentored three junior developers on React best practices, Git workflows, and code review processes, fostering knowledge sharing and improving overall team code quality.
- Collaborated with cross-functional software teams to integrate system-level robotics data with application-level interfaces, reinforcing strong understanding of software boundaries and system design.

**Team Lead & Crew Trainer** — McDonald's

Scarborough, ON

Sept 2020 – Present

- Trained and mentored 15+ new employees on operational procedures, quality standards, and workplace integrity, demonstrating commitment to excellence and "doing the right thing."
- Coordinated with management and team members to resolve operational challenges efficiently in a high-pressure, fast-paced environment requiring strong work ethic and reliability.

## Technical Projects

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**Algorithm Visualizer Web Application (AlgoBuddy)**

Technologies: React, JavaScript, TypeScript, D3.js, HTML, CSS | Live Site | GitHub

Apr 2025

- Built an interactive educational platform to visualize fundamental computer science algorithms, emphasizing core CS concepts including sorting, searching, and graph traversal algorithms.
- Implemented 8 algorithm visualizations with step-by-step execution using React and D3.js, focusing on clean, maintainable code architecture.

**Budget Expense Tracker**

Technologies: Python, Flask, SQLite, JavaScript, HTML, CSS | GitHub

Aug 2024

- Developed full-stack web application using Python and Flask with RESTful API design, demonstrating understanding of both frontend and backend fundamentals.
- Achieved 90+ Lighthouse performance score through frontend optimization, demonstrating attention to code quality and user experience.