

Allen Reinoso

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November 11, 2025

Ontario Teachers' Pension Plan

5650 Yonge Street

Toronto, ON

Re: Application for Product and Data Engineering Intern Co-op Position

Dear Hiring Manager,

I am a third-year Computer Science student in the Co-op program at Toronto Metropolitan University, maintaining a 3.85/4.33 GPA, and I am excited to apply for the Product and Data Engineering Intern role at Ontario Teachers' Pension Plan. With hands-on experience developing software solutions using Java, Python, React, SQL, and object-oriented design principles, I am eager to contribute to your Product and Data Engineering teams while continuing to grow as a developer.

As the Lead Web Developer for TMU's robotics team (Toronto MetRobotics), I developed a React-based, real-time rover dashboard to visualize telemetry and controls using WebSockets, TypeScript, and modular, scalable UI patterns. I also integrated Python-based data relay services using a pub/sub messaging model. This work strengthened my skills in system design, code structuring, collaborative Git workflows, and CI tooling, all practices aligned with how software is developed at Ontario Teachers' Pension Plan.

In addition, my database and software engineering coursework has provided a strong foundation in relational schema design, SQL querying, iterative development, and writing clean, maintainable code. My experience using GitHub for version control, code reviews, and project documentation will support my transition to learning your development toolchain, including Jenkins, Jira, and Confluence.

I am particularly drawn to Ontario Teachers' Pension Plan because of your role in building tools that directly support pension and investment professionals while continuously improving internal engineering practices. I appreciate your structured mentorship model, midterm team rotation, and strong culture of collaborative engineering development, and I am especially excited about the chance to learn from experienced engineers while contributing meaningfully to real product work across multiple teams during the internship term.

Thank you for considering my application. I look forward to the opportunity to discuss how I can contribute to Ontario Teachers' Pension Plan's success.

Sincerely,

Allen Reinoso (He/Him)

Third-Year B.Sc. (Hons Co-op) Computer Science Candidate

Toronto Metropolitan University

Allen Reinoso

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Skills Summary

Programming Languages: Python, Javascript, Java, SQL, C/C++

Frameworks/Tools: Git, Github, React, Docker, Bash, HTML, CSS, Node.js, Next.js, MongoDB

Development Skills: Data Structures and Algorithms, RestAPI, Agile

Interpersonal Skills: Communication, Team Collaboration, Problem-Solving, Project Managment

Education

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON

Computer Science (B.Sc Hons Co-op)

Sept 2023 – Expected 2028

◦ **CGPA:** 3.85/4.33

◦ **Relevant Courses:** Software Engineering, Data Strutures and Algorithms, AI/ML, Discrete Math, Database Systems

Experience

Lead Web Developer

Toronto, ON

Toronto MetRobotics [🔗](#)

Sept 2024 – Present

- **Technologies:** Javascript, **ROS2**, TypeScript, Tailwind, **React**, GitHub, shadcn
- Leading the **Web Development** team's **Agile** development environment, participating in sprint planning, stand-up meetings, and code reviews, **iteratively refining** features and **improving system performance**.
- **Developed** a dynamic **React-based GUI** with reusable components to display **live rover data** and implement **ROS2 data distrubution services**, enhancing user control and system monitoring.

Team Lead & Crew Trainer

Scarborough, ON

McDonald's

Sept 2020 – Present

- **Onboarded** and **coached** new staff in guest service and kitchen operations; **monitored** performance and provided feedback to uphold **quality standards**.

Projects

Algorithm Visualizer Site [🔗](#) — React, JavaScript, HTML, Tailwind CSS, GitHub

Apr 2025

- **Led** a small development team in the design and launch of **AlgoBuddy** [🔗](#), a web-based algorithm visualizer, ensuring a user-friendly platform that improved accessibility to complex algorithms.
- **Implemented 8 algorithms** and **3 custom visualizers** in React, JavaScript, HTML/CSS and D3.js, enhancing scalability and enabling interactive demonstrations for deeper algorithm comprehension.

Budget Expense Tracker [🔗](#) — Python, SQLite3, Flask, HTML, JavaScript, CSS

Aug 2024

- **Developed** a full-stack web application to help users track income and expenses efficiently. Utilized Flask with Python for backend processes and SQLite3 for database management, enabling persistent and reliable financial data storage.
- Enhanced the front-end using HTML, CSS, and JavaScript to optimize user experience, resulting in a clean, responsive interface. The application achieved top marks in Lighthouse tests, consistently scoring an **average of 90+**.

LeetNGreet App [🔗](#) — React, Auth0, Docker, MongoDB, Next.js, TypeScript

In-Progress

- **Building** a full-stack web application to connect LeetCode users, using Next.js for the React frontend, REST API endpoints, and MongoDB with Mongoose for user information and post storage.
- **Implemented authentication and authorization** with Auth0, enabling personalized sessions and protecting user data.
- **Containerized** the application with Docker to ensure consistent development and deployment environments across systems.