

Allen Reinoso

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November 5, 2025

Tech Solutions Inc.

1234 Street Name

Toronto, ON

Re: Application for Software Developer 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. I am excited to apply for the Software Developer Intern Co-op position at Tech Solutions Inc.. With hands-on experience developing full-stack web applications using React, Python, and cloud technologies, I am eager to contribute my technical, analytical, and collaborative skills to your team.

As the Lead Web Developer for TMU's robotics team, I developed a React-based dashboard to visualize real-time rover data, integrating ROS2 and WebSockets to enhance performance during the University Rover Challenge. This experience strengthened my understanding of scalable UI design, modular development, and agile collaboration within a multidisciplinary team. Additionally, my coursework in Data Structures, Software Engineering, and AI/ML has given me a strong foundation in problem-solving and software architecture.

Beyond my technical experience, I bring strong teamwork and leadership skills from my role as a Crew Trainer at McDonald's, where I mentored new team members, managed priorities under pressure, and maintained high performance standards. These experiences reinforced my ability to communicate clearly and collaborate effectively, which I believe are both essential in fast-paced development environments.

I am particularly drawn to Tech Solutions Inc. because of your innovative approach to solving complex problems in the tech industry. I am inspired by your focus on innovative technology, commitment to mentorship, and reputation for engineering excellence, and I am eager to apply my skills to support your ongoing projects while continuing to grow as a Software Developer Intern within your organization.

Thank you for considering my application. I look forward to the opportunity to discuss how I can contribute to Tech Solutions Inc.'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 Management

Education

Toronto Metropolitan University (Formerly Ryerson University)

Computer Science (B.Sc Hons Co-op)

Toronto, ON

Sept 2023 – Expected 2028

- **CGPA:** 3.85/4.33

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

Experience

Lead Web Developer

Toronto MetRobotics ↗

Toronto, ON

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 distribution services**, enhancing user control and system monitoring.

Team Lead & Crew Trainer

McDonald's

Scarborough, ON

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.