

# Maaneth De Silva

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## EDUCATION

### University of Toronto

Bachelor of Science in Computer Science, Software Engineering Stream Co-op  
Dean's List (2021–2022)

Toronto, ON, Canada

Sept 2020 – August 2025

## TECHNICAL SKILLS

**Languages** : Java, C, TypeScript, Python, Linux, C, JavaScript, SQL, HTML, CSS  
**Tools** : React, Node.js, .NET Framework, Docker, Express, MySQL, Git, Azure DevOps  
**Relevant Coursework** : Data Structures and Algorithms, Systems Programming, Databases, Software Engineering

## PROFESSIONAL EXPERIENCE

### Software Developer Intern

Ceridian

May 2022 – Dec 2022

Toronto, Canada

- Developed and enhanced 50+ features for cloud-based SaaS enterprise software using **.NET** and **JavaScript** frameworks.
- Collaborated on a reliable workflow data monitoring tool for Dayforce in **C#**, serving 5,000,000+ active users.
- Optimized **MSSQL** queries, safeguarding data for 1,000,000+ daily workflows in Dayforce.
- Implemented security measures with input sanitization in **TypeScript**, reducing XSS injection vulnerabilities.
- Contributed to code reviews, performed rigorous testing, and resolved bugs using **Selenium** WebDriver.
- Recognized for valuable UI features in the workflow administration team through an outstanding performance review.

## PROJECTS

### Calypso – Digital Marketplace

Typescript | React | MongoDB | Neo4j | Docker | Git Actions

- Designed a recommendation engine with Neo4j to suggest 1,000+ songs and artworks based on user purchases.
- Utilized **NodeJS** for a scalable microservice architecture and React, TypeScript, and **Tailwind** CSS for UI components.
- Enhanced analytics functionality using cookies and analytics, leading to a 50% expansion of analytics page capabilities.
- Automated the testing and deployment by building a **CI/CD** pipeline, saving 20% of work time per day.
- Embraced agile methodologies and Jira to manage project completion within 4 sprints.

### MyBnB – Airbnb Backend

Java | MySQL | Github

- Developed Java-based backend system (MyBnb) for handling Airbnb functions across 100,000+ bookings with MySQL.
- Designed a normalized relational database schema, optimizing data storage and preventing redundancies.
- Constructed advanced queries for host and user rankings, data-driven pricing suggestions, and commercial host identification.
- Implemented search enhancements, allowing users to search through 10,000+ listings using diverse criteria.

### PintOS – Operating System

C | Linux | Docker | Github

- Created a functional operating system capable of running user programs and handling various system scenarios in C.
- Received an 95% grade for strong understanding of operating system concepts and efficiency.

### E-commerce App – Android Application

Java | Android Studio | Firebase | Github

- Designed a Java-based Android app with a cross-functional agile team, utilizing NoSQL database schema and Firebase for streamlined user data organization.
- Conducted comprehensive unit testing with **JUnit 5** and **Mockito**, achieving 99% app coverage embracing test-driven development.