

# KARANVIR HEER

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## SKILLS

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**Programming Languages** Python · Java · C#

**Tools & Platforms** Git · JMeter · Selenium · JIRA · Jenkins · PostMan · SailPoint · Active Directory

## EXPERIENCE

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### Junior Software Engineer Co-op

January 2023 - August 2023

*Ontario Ministry of Children, Community and Social Services*

*North York, ON*

- **Enhanced the MyBenefits Framework** by integrating Selenium-based navigation and testing, enabling automated credential verification for admin, case worker, and base user accounts
- **Reduced manual testing time by 80%** by automating homepage content verification across multiple user roles, improving system efficiency and accuracy
- **Optimized test case runtime by 60%** with improved Selenium UI validation, generating HTML reports for detailed tracking and future use
- Integrated Mailinator API into the framework, automating email validation and **reducing test case run-time by 30%**
- **Created and managed user stories and tasks** in Azure Sprint, ensuring accurate tracking of automation script fixes in an **Agile workflow**

### Identity and Access Management Analyst Co-op

May 2021 - December 2021

*Enbridge*

*North York, ON*

- Facilitated compliance with **TSA Cybersecurity Mandates** for North American energy companies by addressing key action items and ensuring alignment with regulatory standards
- Conducted a comprehensive audit of the enterprise Service Desk to evaluate adherence to cybersecurity policies, **assessing both system performance and end-user experience**
- Designed, developed, and tested ServiceNOW forms and SailPoint SOPs for user rights management, **improving access control and policy enforcement**
- Leveraged **Agile methodology** for form development, ensuring efficient iteration and deployment within a dynamic project environment

## EDUCATION

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### Toronto Metropolitan University

2020-2024

*Honors B.Sc. in Computer Science with Co-op*

## PROJECTS

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### Student Marketplace - React · JavaScript · Node.js · SpringBoot

[Website](#) [GitHub](#)

- Developed a secure advertisement platform for Toronto Metropolitan University students, featuring user authentication, efficient search, and a user-friendly ad posting interface
- Ensured responsiveness and functionality across desktop and mobile, integrating APIs and implementing robust web security
- Implemented server, database, and application logic using SpringBoot for efficient data storage and retrieval

### Recyclops - React · JavaScript · Node.js · Tensorflow.js

[GitHub](#)

*MacHacks 2021*

- A waste image classifier that helps people sort their trash into the correct bins
- Trained a ML model with **1500 unique images** and 30 different categories
- Has an **80% success rate** at correctly distinguishing and categorizing waste

## INTERESTS

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Gym · Marathon Running · Gaming · Violin · Fantasy Novels · Design and Illustration · Photography