KARANVIR HEER

✉ karanvirheer88@gmail.com   🏠 karanvirheer.com   karanvirheer   in karanvirheer

SKILLS

Programming Languages	Python · Java
Tools & Platforms	Git · JMeter · Selenium · JIRA · Jenkins · PostMan · SailPoint · Figma

EXPERIENCE

Junior Software Engineer Co-op   January 2023 - August 2023
Ontario Ministry of Children, Community and Social Services   *North York, ON*

- Enhanced testing 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

Toronto Metropolitan University   2020-2024
Honors B.Sc. in Computer Science with Co-op

PROJECTS

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   **Website 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

Gym · Violin · Graphic Design · Running · Gaming · Fantasy Novels · Photography