Patricia Ding

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Education

University of Toronto; Computer Science **September 2020 - May 2024**

- Cumulative GPA: 4.00
- Recipient of the President's Scholars of Excellence scholarship ($10,000)

Work Experience

University of Toronto **May 2021 - Present**

Security Incident Response Analyst

- Managed the intake of user reports about phishing attacks and security incidents
- Investigated logs and event data to determine the correctness of the compromised account detection service
- Enhanced Python account reset script to increase the efficiency and reliability of the script
- Implemented feature in reset script to force compromised accounts to enrol in MFA
- Improved patching cadence by informing other departments about network vulnerabilities and assisted in resolving them

Lakeridge Ski Resort **December 2018 - March 2021**

Ticket and Lesson Cashier

- Processed transactions of various types of lift and tubing tickets based on hourly rates, group packages, and coupons
- Recommended various combinations of tickets, rental equipment, and lesson packages to customers based on their age, experience level, group size, and available time
- Explained to first-time visitors the process of renting equipment and assisted customers in filling out rental forms

Projects

MonKey Pass (Password Manager) **September 2021 - December 2021**

- Create a web-based password manager using Java and React JS
- Ensured the program compiled with software development principles (SOLID, Clean Architecture)
- Utilized SHA-256 for the master password, the symmetric-key block cipher, Blowfish, for encryption and decryption, and implemented a strong password generator
- Managed a team of 6 peers by assigning tasks and facilitating discussions regarding the trajectory of the project

COVID-19 Contact Visualizer **March 2021**

- Collaborated with 3 people on a project that used Python to visualize the spread of COVID-19 in local communities
- Generated randomized data based on variables such as number of people and relative closeness
- Computed on the data to determine the rate of the disease's spread
- Visualized the results in an interactive animation using the plotly and networkx library