

Cheska Ruth Santos

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EDUCATION

Toronto Metropolitan University (Ryerson University)

Toronto, ON

Bachelor of Science in Computer Science

June 2025

- Clubs: Women in Computer Science (Event Associate), Metro Hyperloop (UI/UX Designer)
- Relevant Courses: Data Mining, Probability & Statistics, Machine Learning, Data Structures & Algorithms, Database Systems

EXPERIENCE

Cybersecurity Intern

May - August 2024

Bell Canada, Telecommunications company

Mississauga, ON

- Supported the cybersecurity team in daily operations by managing and analyzing data using Excel, ensuring accurate tracking of critical information.
- Participated in Capture the Flag (CTF) challenges, applying practical cybersecurity skills in simulated threat scenarios and strengthening hands-on expertise.
- Gained exposure to advanced cybersecurity projects, providing oversight and supporting documentation, fostering a solid understanding of security protocols and risk management.
- Collaborated closely with senior analysts, gaining valuable insights into threat detection, incident response, and security audit processes.

Event Associate

August 2024 - Present

Women in Computer Science

Toronto, ON

- Coordinating and managing events such as workshops, networking sessions, and guest speaker panels aimed at promoting diversity and empowering women in technology.
- Actively engaging with attendees and gathering feedback to improve future events, boosting community involvement and enhancing participant experiences.
- Contributing to strategic event planning and creative design to support WiCS's mission, fostering a connected and supportive environment for women in computer science.

PROJECTS

MediFlow | Database System Project

- Collaborated on the development of a database-driven management system for a walk-in clinic, focusing on efficient database design, SQL query optimization, and data retrieval processes.
- Employed Unix shell scripting to streamline query execution and menu options, enhancing system functionality and user experience.
- Led the design of an ER model, schema creation, and normalization efforts to optimize database performance and ensure data consistency.
- Created detailed documentation for database structure, queries, and functionality, improving project transparency and facilitating effective collaboration.

TMU Big Bank | Python, Flask, React, MySQL, JavaScript

- Developed a comprehensive full-stack web application using Flask (back end) and React (front end), with MySQL as the relational database, adhering to best practices in the SDLC process.
- Built core banking functionalities such as deposit, withdrawal, and transfer features by creating robust ATM classes in Python, facilitating accurate transaction processing.
- Led backend design, data flow structuring, and schema creation; conducted extensive testing and debugging to ensure system stability and alignment with user requirements.

HACKATHON PROJECT

SheHacks x General Motors Challenge Winner | Western University

January 2024

- Developed **Wake The Beep Up**, a driver safety application that uses OpenCV to monitor drivers' eye activity and detect signs of drowsiness.
- Integrated Python libraries and pygame to trigger immediate audio alerts, ensuring driver safety with real-time responsiveness.
- Designed a feature to automatically notify emergency contacts in critical situations, enhancing the system's effectiveness and reliability.

TECHNICAL SKILLS

Languages: Python, SQL, Java, C/C++, JavaScript, Elixir, Rust

Data & Analysis: Data Processing, Data Modeling, Statistical Analysis, Predictive Modeling

Web Development: Flask, React, HTML, CSS, jQuery

Other Tools: Git, Jupyter Notebooks, Linux, MySQL, Visual Studio, Pandas, NumPy, Agile, Figma, OpenGL