

Aaryaman Rattan

Location: Toronto, Ontario, Canada

[Portfolio Website](#) | [LinkedIn](#) | [GitHub](#) | [Leetcode](#)

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TECHNICAL SKILLS

Languages : Python, Java, JavaScript, C, C#, HTML5/CSS, SQL, SmallTalk, Rust, Haskell, Elixir, Lisp, PHP, Ruby, Perl, XML, SVG, Bash.

Toolkit : Android Studio, SQLite, Tableau, Numpy, Pandas, React, Git/GitHub, Agile Patterns.

EDUCATION

Toronto Metropolitan University(formerly Ryerson)

Toronto, Canada

Bachelor of Science, honors in Computer Science(CO-OP) | Minor in Philosophy

September 2021 – May 2025

Member of Dean's List (GPA: 3.78/4.33) | Member of TMU Coding Club

Relevant Courses : Computer Organization, Object Oriented Programming, Data Structures and Algorithms, Operating System, Linux, Database Management, Web Development, Artificial Intelligence, Computer Security, Design Patterns, Probability and Statistics, Philosophy and Sociology.

EXPERIENCE

Software Engineering Intern

September 2022 – December 2022

BSA, York University

North York, Ontario

- Led a team of 7 developers to architect, build, and monitor the main websites for a prominent York University accredited club, employing React.js for the front-end and GraphCMS (GraphQL) for the back-end.
- Strengthened code base with automated testing and UI/UX integration, driving a remarkable 70% surge in customer interaction and ticket sales as a result of a more robust and user friendly application.

Research Associate

June 2022 – September 2022

Institute of Social Research

North York, Ontario, Canada

- Contributed as a Research Associate at Canada's premier research center and collaborated with several governmental bodies such as Government Health, CAMH, and Public Health Ontario.
- Attained a survey success rate exceeding 91% by executing over 300 bi-monthly telephone surveys using Computer Assisted Telephone Interviewing (CATI) methods.

Director of Operations

September 2022 – January 2023

IEEE Club, Ryerson University

North York, Ontario, Canada

- Assigned Director of Operations at the Institute of Electrical and Electronics Engineers Club, the world's preeminent technical professional organisation dedicated to advancing technology for humanity.
- Engineered and managed events like 'Resume Roasts' and 'Industry Meet and Greets', fostering collaboration between Industry experts and students while uniting various IEEE subbranches (EMBS, CSRC, REC, CIC).

PROJECTS

COVID-19 Data Analysis and Visualization

SQL, Excel, Tableau

[Source Code](#)

- Transformed complex COVID-19 data set using advanced SQL queries to create accessible data models.
- Developed engaging data visualizations utilizing Tableau Public including graphs, charts, and interactive maps to enhance data comprehension and insights, contributing to informed decision-making.

Watch Out: An Evidence Gathering Tool

Java, XML, SQL, Microsoft Speech Detection, Bert's NLP

[Source Code](#)

- Engineered 'Watch Out', a one-of-kind android safety application using Java, XML, SQL, and advanced technologies like Microsoft Speech Detection and Bert's Natural Language Processing model.
- Designed a comprehensive solution post-SOS activation: audio capture, Bluetooth suspect identification, child safety mode, low battery alerts, and device removal detection.
- Developed a unique AI hazard detection system utilizing Microsoft's speech recognition and Bert's NLP model, enhancing emergency response by providing informative insights into the post-SOS reaction.