Sahib Ahluwalia

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EDUCATION

Toronto Metropolitan University (formerly Ryerson University) **Sept 2022 – May 2027 (Expected)**
Honours BSc, Computer Science *Toronto, ON*
- Dean's List (2023 – Present)
- Relevant Coursework: Python & Java Programming, Data Structures, Operating Systems, OOP
- 3.80 GPA

SKILLS & INTERESTS

- **Technical Skills:** C, Python, Java, Linux, Unix, Bash, SQL, Rust, JavaScript (NodeJS), Jupyter, Microsoft Office, C++, Git
- **Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Selenium, Requests, Beautiful Soup, Django, Flask, PyTorch
- **Soft Skills:** Communication, Team Collaboration, Problem Solving, Leadership, Detail-Oriented, Adaptability, Creativity
- **Interests:** Data Science, Machine Learning, Cybersecurity, Artificial Intelligence, DevOps, Cloud Computing, Data Mining

WORK EXPERIENCE

CIBC **Sept 2025 - Present**
Automation Test Analyst (co-op) *Toronto, ON*
- Designed, scripted, and deployed automated test frameworks to validate banking applications, applying OOP and modular design principles.
- Developed and tested web endpoints and UI flows, integrating automation scripts into CI/CD pipelines to enhance system reliability.
- Collaborated cross-functionally with developers and QA teams in an agile environment, contributing to code reviews, defect resolution, and workflow optimization.

PROJECTS

RustyShield: Password Strength Evaluator | *Rust, Regex, Colored*
- Built a command-line password auditing tool that analyzes strength based on entropy, character diversity, and adherence to security best practices.
- Leveraged Rust and crates like regex and colored to deliver real-time feedback, score-based evaluations, and actionable suggestions for stronger credentials.
- Demonstrated expertise in systems programming, secure coding, and CLI development through a responsive, user-centric security utility.

Uber App Simulation | *Java*
- Developed a Java-based command-line simulation of an Uber-like platform, enabling real-time ride requests, food delivery scheduling, and driver assignment with location-based logic.
- Implemented modular, object-oriented components for user authentication, driver management, fare calculation, and zone-based routing—demonstrating clean code practices and system scalability.
- Integrated custom data validation and error handling routines to ensure transaction integrity and simulate real-world edge cases, highlighting attention to secure input handling and system reliability.

Calorie Calculator | *Python, Matplotlib*
- Engineered a Python-based calorie planning tool that generates personalized nutrition plans for weight loss or gain based on user input and weekly goals.
- Integrated Matplotlib to visualize weight progression and macronutrient distribution, highlighting skills in data visualization, user-centric design, and interactive CLI development.