

Gushan Gowressoo

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EDUCATION

Concordia University

B.S. Computer Science, General Program

Montreal, QC

Expected graduation, Apr 2024

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Web Development, Machine Learning, Artificial Intelligence, Data Communication & Computer Networks, Big Data Analytics

Imperial College

Cambridge International Advanced level by Cambridge Assessment International Education (CIAE)

Curepipe, Mauritius

2019

PROFESSIONAL EXPERIENCE

Maman Saluja Limited

Analyst Intern, Information Technology

Tamarin, Mauritius

Sept 2020 – Dec 2020

- Utilized Excel to collect, organize, and analyze data related to IT systems, enhancing inventory management, sales forecasting, and customer engagement strategies.
- Conducted code reviews and provided constructive feedback to improve overall code quality
- Utilized JavaScript, HTML, and CSS to develop a web-based Point of Sale (POS) application for a food retailer

Mr. Steel LTD

Software Testing Intern

Phoenix, Mauritius

Jan 2020 – Sept 2020

- Executed comprehensive software testing procedures, identifying, and reporting bugs to enhance product quality
- Developed and executed manual test cases, contributing to the identification and resolution of bugs before product release
- Collaborated with cross-functional teams to streamline testing processes and improve efficiency

PROJECTS

Vulnerability Detection

Company: ML4Cyber

Montreal, QC

Jan 2024 – present

- Partnering with ML4Cyber to enhance source code vulnerability detection
- Utilizing machine learning for precise and efficient vulnerability identification
- Integrating static code analysis reports with key elements like severity levels and CWE identifiers
- Implementing tools such as JSHint, ESLint, and PMD for comprehensive analysis

AI Wargame

Team Member

Montreal, QC

Sept 2023 – Dec 2023

- Developed a 2-player AI Wargame, simulating an attacker and defender on a 5 x 5 board
- Implemented Minimax and Alpha-beta algorithms for predicting optimal moves, enhancing the game's strategic intelligence
- Contributed to the project's success, resulting in the game achieving a prominent top 5 ranking in its category

Machine Learning Experiments

Team Lead

Montreal, QC

Sept 2023 – Dec 2023

- Conducted experiments with scikit-learn, implementing classifiers for predicting species and sex
- Explored preprocessing techniques, visualized class distribution, and optimized models using grid search
- Systematically documented model performance, including confusion matrices, precision, recall, and F1-measures
- Utilized matplotlib and pandas methods for effective implementation and visualization

SKILLS

Programming: Java, Python, C++, C, C#, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, Prolog, Lisp

Tools: Eclipse, PyCharm, Jupyter Notebook, CLion, Git, Visual Studio Code, Apache Spark, Scikit-learn, Hadoop

Platforms: Linux, MacOS, Windows