SAMIR HOSSAIN

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PROFESSIONAL SUMMARY

Hardworking student focused on completing work efficiently and always eager to learn. Reliable team member accustomed to taking on challenging tasks in a fast-paced environment.

EDUCATION

BASc University of Toronto, Computer Engineering **September 2021 - Present**
International Baccalaureate Diploma Father Michael McGivney Catholic Academy **September 2017 - June 2021**

SKILLS AND ABILITIES

- Result oriented with great attention to detail.
- Skilled in communication and collaboration; a proven team player eager to work with others.
- Demonstrates initiative to improve skills, experience, and knowledge.
- An organized leader with exceptional analytical and critical thinking abilities.
- Consistently welcomes constructive criticism and the opportunity to improve.

LANGUAGES

English: Native Language
French: Intermediate Speaker, Reader and Writer
Bengali: Intermediate Speaker, Novice Reader and Writer

HONORS AND AWARDS

University of Toronto Scholar **May 2021**
A $7,500 merit-based scholarship awarded to outstanding incoming University of Toronto students with a 4.0 GPA.

Edward S. Roger Sr. Admission Scholarship **May 2021**
A $2,500 merit-based scholarship available exclusively to electrical & computer engineering students at the University of Toronto.

Ontario Pro – Con Debate First Place **April 2019**
My partner and I worked together to finish in first place in a provincial debate tournament.

COMPUTER SKILLS

Programming Languages: MATLAB, C, C++, SQL and Python
Other Software's: Proficient at Microsoft Word, PowerPoint, and Excel
Applications:

- Used MATLAB to create machine learning algorithms to train a real estate model to predict price per unit area of a property.
- Successfully modeled a vehicle traffic network in MATLAB to investigate mean waiting time of vehicles.
- Projects in C:
  - Created a phonebook library utilizing linked lists, various data structures and recursive algorithms.
  - Developed the two-player board game *Reversi* and implemented an artificial intelligence program using pruning and decisions trees to compete against other players.
- Projects in C++:
  - Created the two-player game *Tic-Tac-Toe* using classes and arrays.
  - Programmed a dynamic music library through the use of dynamic memory allocation, error handling and multiple linked lists and classes.
  - Developed a program to track and manage the number and type of users on a streaming platform using hash tables, linked lists, and recursive algorithms.

PROFESSIONAL TRAINING

Programming Fundamentals, University of Toronto **December 2022**
Computer Fundamentals, University of Toronto **May 2021**
MATLAB Certification, Udemy **October 2021**
Python Certification, Udemy **March 2021**
Advanced Speech Writing Certificate, Toastmasters **December 2018**

WORK EXPERIENCE

Odin Holdings Inc. **December 2017 – August 2020**

Assistant Property Manager

- Analyzed current or potential problems and determined the optimal solution for both the tenant and property owner
- Supervised, coordinated, and actively participated in the installation, maintenance, and reparation of property facilities
- Addressed complaints, violations, and problems regarding property facilities and/or tenants
- Worked closely with the property owner and manager to prepare annual and monthly budgets as well as reported on financial performance regularly
- Kept detailed notes and records of payments, bills, work orders and reports

Canadian Imperial Bank of Commerce **May 2022 – August 2022**

Corporate Security Coordinator (Co-op)

- Completed a co-op within the Security Engineering team, shadowing senior engineers on day-to-day operations, and learning the corporate environment
- Compiled a monthly Security Hardening Requirements report to assess the compliancy of servers and appliances with CIBC's corporate cyber security standards across various lines of business to improve the overall security of the bank
    - Normalized extracted data from server endpoints hosted in Microsoft Azure to accurately identify non-compliant and non-standard servers and appliances
    - Presented the report in a concise MS Excel spreadsheet to be sent to stakeholders and higher management
    - Created a template and an accompanying guide for future reports to be populated by other members of the team
- Ensured that provisioned servers and appliances are consistent and compliant with Application and Infrastructure Resilience (AIR) level standards.
    - Facilitated meetings with product owners to assess each appliances' Recovery Time Objective (RTO) and Recovery Point Objective (RPO)
    - Facilitated meetings between the team and technology partners, solution design, and infrastructure architecture, captured meeting minutes to be sent to the participants and followed up with the action items
- Created a weekly report to present overdue and failed change requests assigned to the security engineering team which was presented to senior members to improve operational efficiencies.

Bell Canada **May 2023 – August 2023**

Data Science & AI Intern

- Completed a co-op within the Network Core Data Science team learning day-to-day operations from senior data engineers and data scientists.
- Created several reports on Excel and PowerPoint to showcase non-compliant vendors' data ingestion delays across several indexes to improve overall efficiency of the team's reporting.
- Utilized MicroStrategy to design and generate comprehensive reports aimed at identifying missing documents within data pipelines, employing SQL queries to extract relevant data and Cubeflow for visualization, resulting in improved data integrity and streamlined process flow.
- Engineered closed loop automation to monitor Elastic-based machine learning jobs. Automated alerts on Slack for failures and memory breaches as well as data feed restarts via JSON payloads reducing manual intervention and downtime.
- Regularly delivered comprehensive project presentations to senior data scientists, effectively communicating complex technical details, methodologies and outcomes.

ADDITIONAL INFORMATION

References are available upon request