MD Awsaf Hossain

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Education

University of Toronto | BSc in Statistics (Quantitative Finance) + BBA Management Finance *Expected completion:* 12/2027
Relevant coursework: Financial Accounting, Management Accounting, Microeconomics, Macroeconomics, Calculus, Linear Algebra, Discrete Mathematics, Differential Equations, Data Structures, Python Programming, C Programming, Management Communications

Skills

Finance & Analytics: Financial modeling, DCF valuation, sensitivity analysis, forecasting, budgeting, KPI tracking, industry research, company analysis

Programming & Data: Python, C, SQL, Excel (advanced), Power BI, Alteryx, VBA, data cleaning, automation, data visualization, backtesting, file parsing, structured data modeling

Work Experience

Finance Intern | *Heineken Canada* *Toronto, Canada* | 05/2025 - 12/2025

- Prepared and delivered weekly finance presentations to cross-functional stakeholders, presenting Power BI dashboards and synthesizing key business performance trends across sales, pricing, discounting, and channel mix to support planning and decision-making.
- Extracted, cleaned, and analyzed large sales and finance datasets using Excel and Power BI, building dashboards to track monthly sales volumes (hectolitres) across retail, LCBO, grocery, and other channels.
- Performed time-series and comparative analysis (R1, R3, R6, R12) on brand performance, competitor pricing, and discounting using pivot tables and structured data models to support forecasting and strategy discussions.
- Analyzed seasonality trends in sales volumes and collaborated with finance and sales stakeholders to translate data insights into actionable inputs for planning and cash-flow optimization for the Fall-Winter season 2025.
- Co-developed Python-based automation to transform and standardize Excel data files, reducing manual processing and improving reporting reliability.

Junior Financial Analyst | *Teesta Solar Ltd.* *Dhaka, Bangladesh* | 05/2024 - 08/2024

- Built a 20-year revenue model in Excel for a solar power project, incorporating accounting assumptions, scenario analysis, and return projections.
- Developed a DCF model for a 300 MW demo solar plant, including sensitivity analysis and financing assumptions to evaluate project feasibility and investment returns.
- Supported investment analysis by assessing projected cash flows, cost drivers, and return scenarios for management review, and assisted in developing KPI dashboards to monitor energy output, operating efficiency, and cost performance.

Extracurricular Activities

Finance & Marketing Director | *Data Science and Statistics Society - UofT* *Toronto, Canada* | 09/2024 - Present

- Hosted the DS3 Datathon 2025, overseeing budget allocations, sponsor coordination, and financial documentation, while tracking KPI performance across all event functions.

ChattoTurf Sports Arena | *Co-Founder* *Chattogram, Bangladesh* | 09/2024 - Present

- Led financial and operational planning across 4 sports venues, building cash-flow models, tracking performance, and coordinating a 17-member team to improve profitability and support expansion.

Please Turn Over.

University Projects GitHub

Quant Trading Strategy Backtest

- Built a Python backtesting framework using historical TSLA market data to evaluate trading strategies under realistic assumptions including transaction costs, signal rules, and volatility targeting.
- Tested indicator-based strategies across different market regimes and documented performance limitations using a data-driven evaluation approach.

Music Data Structures Project in C

- Built a music-processing program in C using binary search trees, linked data structures, recursion, and file parsing to store, organize, transform, and playback note-based musical data.
- Implemented functionality for insertion, search, deletion, traversal, song reversal, and harmonization, strengthening understanding of algorithm design, memory management, and structured programming.
- Worked with low-level logic and modular C programming to manipulate musical note sequences efficiently and accurately.

Ingredient Networks Graph Project in C

- Built a graph-based ingredient network in C using an adjacency matrix to model direct and indirect relationships between ingredients.
- Implemented recursive algorithms to identify ingredient connections across k-hop distances, filter related ingredients against exclusion lists, and analyze network structure efficiently.
- Developed functionality to evaluate ingredient substitutions within recipes by selecting the best replacement candidate from the network, strengthening skills in graphs, recursion, matrix-based representations, and algorithm design.
- Tested logic on both small-scale and large-scale datasets, working with graphs of up to 400 ingredients to ensure correctness and scalability.

Movie Review Database Project in C

- Built a movie review database in C using compound data types, linked lists, and pointer-based data structuresto store, search, update, sort, and delete structured movie records.
- Implemented core database-style functionality including insertion, traversal, filtering, linked-list deletion, title-based sorting, and query operations across review attributes such as studio, score, and box office performance.
- Extended the program with cast-member tracking and earnings analysis, using linked lists and custom logic to evaluate movie profitability and identify cast members associated with the highest average earnings.
- Strengthened skills in pointer manipulation, dynamic memory management, debugging, modular program design, and edge-case testing through iterative implementation and validation.

Ontario Bridges Data Analysis Project in Python

- Developed a Python-based data processing and analysis tool using real Ontario bridge infrastructure data, transforming raw CSV records into structured formats for querying, inspection tracking, and decision support.
- Implemented functions to analyze bridge conditions, compute distance-based relationships, filter and prioritize bridges by condition index, and support inspection planning using rule-based assignment logic.
- Applied core programming concepts including data cleaning, list-based data structures, loops, string parsing, modular function design, and in-place data updates to solve practical infrastructure management problems.
- Strengthened skills in Python programming, data transformation, algorithmic problem solving, and test-driven debugging through work with real-world public-sector data.