

REHAN MONDAL

Vancouver, BC • (778) 668-4822 • rmondal1312@gmail.com • [linkedin.com/in/rehanmondal](https://www.linkedin.com/in/rehanmondal) • [GitHub](https://github.com)

SOFTWARE DEVELOPMENT • DATA SCIENCE & ENGINEERING • MACHINE LEARNING

Top-performing UBC mathematics & data science graduate ready to apply academic background to an entry-level role supporting growth, efficiency, and competitiveness through development and improvement of AI-powered data systems. Recognized among peers for unique combination of math and programming knowledge to deliver solutions in novel, unexpected ways. Deeply immersed in technology, including cloud, machine learning, and generative AI.

Software Engineering • Data Science & Advanced Analytics • Technical Architecture • Code Review • CI/CD DevOps • Security Features • Communication & Collaboration • Creative & Innovative Solutions

Programming: Python • Golang (Go) • JavaScript/TypeScript • HTML5 • CSS3 • Java • R • MySQL/MS SQL • C • C++ | **Developer Tools • Frameworks, & Environments:** Git • Docker • React • Node.js • Express.js • Flask • Django • PyTorch | **Data Analysis/Data Visualization Tools:** PowerBI • Tableau | **Cloud Computing:** Amazon Web Services (AWS Cloud) • Azure Data Fundamentals (Azure: Data Factory, SQL Database, Cosmos DB, Synapse Analytics, Databricks, Data Lake)

EDUCATION & CERTIFICATIONS

Bachelor of Science in Mathematics & Data Science | University of British Columbia (2023)

Software Development/Engineering • Data Structures & Algorithms • Computer Systems • Data Science
Data Visualization • Relational Databases • Macroeconomics • Artificial Intelligence & Machine Learning
Statistical Modeling • Advanced Mathematics • Data Science Fairness, Accountability, Transparency, & Ethics

IBM Full Stack Software Developer Professional Certificate (2024)

Microsoft Certified: Azure Data Fundamentals (2024)

Web Design for Everybody: Basics of Web Development & Coding | University of Michigan on Coursera (2024)

SELECTED PROJECTS

- **Movie Revenue Prediction Tool Development:** Created a predictive model to forecast the gross earnings of new movies based on complex analysis of a dataset of 5,000 releases; used advanced machine learning techniques.
- **Relational Database for Oil & Gas:** Built solution enabling oil & gas companies to streamline asset management and transportation; developed database end-to-end from domain modeling to application functionality.
- **Airline Booking System Development:** Developed a functional airline booking system, including UI, console-based program, Java GUI, and testing phase. Software was praised for intuitive user experience and clean code.
- **Miami House Price Analysis:** Developed a predictive model that explains 68.95% of price variance in the Miami housing market by performing in-depth statistical analysis on a detailed dataset of ~14K single-family homes.
- **NBA Home Court Advantage Analysis:** Quantified home advantage in NBA games by performing complex analysis on an official dataset with attributes on 25K+ games including dates, points scored, and home/away status.

WORK EXPERIENCE

DATA SCIENTIST INTERN | The Coca Cola Company, Internship

Apr 2019 - Jul 2019

- Supported the company's growth in East Asian markets by building machine learning models to accurately predict seasonal sales trends resulting in optimized revenue growth and strategic market positioning.
- Visualized sales patterns for marketing team and performed advanced financial analysis for finance department.
- Collected and structured data from disparate sources by building data pipelines and integrated into Azure.

SELECTED ENDORSEMENT

"Rehan's commitment to academic excellence was evident in the high-quality, A+ grade coursework he consistently delivered. He actively engaged with the material, demonstrating a keen understanding and a mastery of the course content, including complex Python programming. He is a proactive learner who seeks feedback to enhance his work."

- Giulia Toti, PhD, Assistant Professor of Teaching, Computer Science, University of British Columbia