

Parsa Ahmadizadeh

Toronto, Ontario • (647) 678-2787 • parsa8az@gmail.com • [Github](#) • [LinkedIn](#) • [Resume Website](#)

Education

Toronto Metropolitan University

Toronto, Ontario

B.Sc (Honours) - Computer Science GPA 4.0 / 4.0 (Dean's List)

Graduation Date: April 2025

- Completed 21 courses (2 years worth of courses) in one year while achieving dean's list distinction.
- Engaged in research and hands-on projects that fuse theoretical knowledge with innovative real-world applications.
- **Relevant Courses: Machine Learning, Data Science, Probabilities and Statistics**, AI, Data Structures, Database Systems, Algorithms, Discrete Structures, Discrete Math, Calculus, Linear Algebra, Quantum Software Engineering,

IBM's Basics in Quantum Information certificate

March 2025

Skills

Programming: PySpark, Python (Machine Learning), SQL & NoSQL, Rust, C, Java, JavaScript, Scikit-learn, Pandas, TensorFlow, Qiskit, Familiar with: CI/CD, Docker, Power BI, Databricks, Agile, Git / GitHub, VM

Soft Skills: Problem-Solving, Innovative, Adaptability, Continuous Learning, Detail Oriented, Growth Mindset, Personable

Projects

Retail Sales Analytics - Python (Spark)

- Designed a medallion-architecture workflow in Databricks to clean, transform and summarise a public retail dataset. Produced growth-probability recommendations via a Spark ML model.

PSQL change manager - Python · Docker

- Built a containerised pipeline that streams real-time change events from Postgres into Kafka topics for downstream analytics, simulating transaction workloads and providing audit trails for bookkeeping.

Quantum Computing Research - Python (Qiskit)

- Research into quantum algorithms to achieve a quadratic speedup in outlier detection for financial market data analysis.
- Implemented quantum and classical hybrid data analysis to perform adaptive anomaly detection using quantum counting and Grover's random search, then presented findings to graduate and undergraduate students.

E-commerce Platform - HTML, CSS, Bootstrap, JQuery, SQL, PHP, Java, AngularJS

- Developed a responsive, full-stack eCommerce web application that integrates location-based services and dynamic shipping routing.
- Designed reactive front-end and back-end architectures to ensure scalability and a seamless user experience.
- A similar project was also developed in Java, utilizing an object-oriented approach for the back end.

Boggle game solver - Programmed with Rust

- A scalable and highly efficient Boggle game solver that quickly finds all possible solutions for an N x N board.
 - Implemented efficient backtracking algorithms and custom data structures to improve performance and scalability.
-

Experience

LocaMax Inc.

Richmond Hill, Ontario

Project Coordinator / Manager

February 2021 – March 2023

- Kept the team on time and under budget for each sprint by breaking down the project into small requirements, thinking of bottlenecks ahead of time, staying organized, and working overtime when needed.
- Built custom tools and revised classical methodology to reduce cost at no expense to quality. Through in-depth research, I gained a deeper understanding of the industry's needs and technical requirements, to solve problems quickly and efficiently, while driving innovation.

NueWal

Toronto, Ontario

Technology Officer

March 2019 – December 2020

- Directed the complete redesign of the company website using WordPress, HTML/CSS, and JavaScript, resulting in a 50% increase in qualified lead generation and enhanced user engagement. Developed an **understanding of companies' industry** challenges and opportunities to optimize effective custom solutions.
-

Leadership and Activities

Athletics

Toronto, Ontario

Semi-Professional Soccer Player/Coach & Personal Trainer

- Competed semi-pro with International and Masters FC, demonstrating discipline, resilience, and strategic teamwork.
- Coached youth teams (ages 4 to 18), instilling leadership, strategic thinking, and a passion for continuous improvement.
- Developed tailored training programs that significantly improved athletic performance and community wellness.