

# Miguel Gutierrez

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## PROFILE

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Computer Programming graduate from George Brown College with experience in full-stack development, data analysis, and machine learning. Skilled in Python, Java, JavaScript, SQL, and modern frameworks. Adaptable team player passionate about solving problems and building impactful software solutions.

## TECHNICAL SKILLS

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- Languages: **JavaScript, php, HTML, CSS, Python, Java, C#, PL/SQL, SQL**
- Frameworks: **Flask, React.js, React Native, Express.js, ASP.NET, Node.js, Firebase, Angular, Next, Spring Boot, Django, FastAPI**
- Tools: **Git, GitHub, Jenkins, Figma**
- Data Science Tools: **Pandas, NumPy, scikit-learn, Matplotlib, TensorFlow**
- Databases: **SQL (Oracle, MySQL, SQLite), NoSQL (MongoDB, Firebase)**

## EDUCATION

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- George Brown College – Advanced Diploma in Computer Programming  
Toronto, ON • Expected July 2025

Relevant Courses: Advanced Object-Oriented Programming, Data Structures, Web Application Development, Database Management Systems, DevOps, Machine Learning, Data Science

## CERTIFICATIONS

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- HarvardX: Introduction to Data Science with Python 06/2025
- Machine Learning with Python 02/2025
- CS50: Introduction to Computer Science | Harvard University 06/2024
- 100 Days of Python | Dr. Angela Yu 11/2024

## PROJECTS

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- **Connect 4 AI Implementation** | Python: Developed an AI-powered Connect 4 game in Python, demonstrating expertise in **algorithm design and decision-making**.
- **Flight Manager OOP** | Java: Developed a flight management system using **object-oriented principles** with a command-line interface for functionality.
- **Rose Delivery App** | React Native, Firebase, Google Maps API, Stripe API : Developing a **mobile app** for flower delivery in Canada with features like user registration, order tracking, store management, and delivery integration, using **React Native, Firebase, Google Maps API, and Stripe API**.
- **Football Match Prediction Model** | Developed a **Random Forest model** to predict English Premier League match outcomes. **Scraped and cleaned match data using Python**, requests, **pandas**, and implemented **machine learning with scikit-learn**.
- **House Prices: Advanced Regression Techniques (Kaggle)** | **Ranked 4227 globally**. Applied feature engineering and built XGBoost models for housing price prediction.

## EXPERIENCE & EXTRACURRICULAR ACTIVITIES

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- Code Ninjas Brampton West – Code Sensei –04/2025-07/2025 : Led hands-on coding workshops for children using Scratch and LEGO Spike. - Fostered logical thinking, creativity, and collaboration in a fun STEM setting.
- IEEE Xtreme Programming Competition: **Achieved 4th place at George Brown College, ranked 11th in Canada**, and 1554th globally, demonstrating **exceptional programming skills and problem-solving abilities**.
- CS50: Master Class by Harvard University: **Attended a live masterclass** on November 18, 2024, exploring cutting-edge topics in computer science and gaining valuable insights into best practices.