

# Mark Michalak

64-177 Edgevalley Rd | (647) 922-5641 | mark.michalak@hotmail.com

## Objective

Motivated and detail-oriented Computer Programming Analyst student at Fanshawe College seeking an intern position to apply and further develop my technical skills in software development, data analysis, and system design. Eager to contribute to innovative projects and grow within a professional team environment.

## Education

Fanshawe College | London, Ontario

Computer Programming Analyst (CPA3)

Part-time Student | Expected Completion: Spring 2028

## Technical Skills

- Programming Languages: Python, C++, C#, Java, JavaScript, SQL
- Development: Full Stack Development (React, Node.js), REST APIs, Database Design
- Tools & Frameworks: Git, Visual Studio, IntelliJ IDEA, Eclipse
- Networking: Network Fundamentals, TCP/IP, and Security Basics

## Projects

### Emergency Room Triage System

- Developed a priority queue system using C++ to simulate patient triage in an emergency room.
- Implemented algorithms to calculate patient priority scores.
- Handled file operations to load and save patient data in CSV format.
- Enhanced usability with dynamic menu options for queue management.

### Breast Cancer Diagnosis System

- Built a binary decision tree in C++ to classify tumors as benign or malignant.
- Used patient data from CSV files for analysis.
- Generated detailed diagnostic reports with statistical summaries.

### Expression Evaluator

- Designed a C++ app using the Shunting Yard Algorithm to evaluate expressions.

# Mark Michalak

64-177 Edgevalley Rd | (647) 922-5641 | mark.michalak@hotmail.com

- Extended support for real numbers, Boolean operations, and variables.
- Added error-handling mechanisms and Gregorian calendar support.

## Helpdesk Management System

- Created a C# and ASP.NET Core application to manage helpdesk calls.
- Integrated with Entity Framework Core for database operations.
- Built dynamic UI using JavaScript/jQuery for real-time updates.
- Conducted unit and integration tests for reliability.

## Experience

- Collaborated with peers to develop structured and object-oriented academic projects.
- Applied coding practices and frameworks to meet project requirements efficiently.

## Interests

- Exploring emerging technologies and software development trends.
- Contributing to open-source projects.
- Networking and learning through hackathons and tech meetups.

## References

Available upon request.