Logan Halcovitch

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Education

Mohawk College   **Expected December 2026**
Computer Science Advanced Diploma Co-op

Relevant Coursework: C#, Java, Python, Web Development (HTML, CSS, JavaScript, PHP), Database Management (SQL, NoSQL), SDLC, Object-Oriented Programming, Software Testing and Quality Assurance, Networking and Security Essentials, Discrete Math, Statistics, Agile.

Projects/Experiences

Java COMP10062– Tabletop Game Project   **January 2024**

- Developed a grid-based game application using **Java** and **JavaFX**, implemented key **object-oriented programming** principles such as encapsulation, inheritance, and polymorphism.
- Developed a game application using classes to manage game logic, graphical user interface, game state, and game piece behaviors, ensuring correct user interaction, validation, and modular design.
- Leveraged exception handling to enhance application stability and provide informative feedback to users, ensuring a smooth gameplay experience.

Client Side Programming COMP10259– Web Development Project   **April 2024**

- Developed an interactive web-based game using **SVG** and **JavaScript**, incorporated event handling, **DOM manipulation**, and animated SVG elements with **dynamic styling through CSS.**
- Implemented user-controlled inputs, state tracking, and responsive design. Ensured **compatibility across** mobile and desktop **devices** with separate documented JavaScript and CSS files.

.NET Programming COMP10204–Shapes Project   **September 2024**

- Developed a console-based **C# application** utilizing **object-oriented** programming principles to create an interactive shape calculator. Applied polymorphism, modularity, and error-checking to allow users to enter dimensions and view calculated areas and volumes for 2D and 3D shapes.

.NET Programming COMP10204–Hair Dresser Project   **September 2024**

- Built a Windows Forms application in C# for a salon pricing tool that dynamically calculated service costs. Designed a GUI for selecting hairdressers, services, and client discounts, with **validation logic** and custom discount structures based on client visits.

Software Quality & Testing COMP10066–Testing/Debugging Code Project   **October 2024**

- Achieved **100% code coverage** by conducting a variety tests using **IntelliJ** and **JUnit 5**, while identifying and documenting bugs with appropriate test cases. This resulted in maintaining test case isolation and performance under **5 seconds per test.**
- Created comprehensive unit tests to validate functionality, including detailed comments on test purposes and summaries of any discovered bugs, outlining necessary code fixes without modifying the original implementation.

Skills

Languages: C#, Java, Python, JavaScript, HTML, CSS, PHP, C++

Tools & Technologies: Visual Studio, .NET, Git, Database Management (SQL), Arduino, Raspberry Pi, Terminal, Word, PowerPoint, Excel, DevOps, CI/CD.