

Sami Nachwati

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TECH

Languages: C#, Python, PHP, Java, JavaScript (JSON, AJAX), SQL (including Stored Procedures), HTML, CSS3
Tools: ASP.NET, Bootstrap, .NET 5+, JavaFX, Oracle, Node.js, MySQL, Microsoft SQL Server, MS Windows Server, REST, Angular
Technologies: Visual Studio 2022 IDE, Notepad++, IntelliJ, GitHub, Git Version Control, PyCharm, DBMS, Selenium
Concepts: Web Security, Web Design, Object-Oriented Design, Object-Oriented Analysis, Data Structures & Algorithms, Code Complexity, Queues, Stacks, SDLC, Unit Testing, Relational/Non-relational Databases

EXPERIENCE

Mohawk College of Applied Arts & Technology

May 2023 – Aug 2023

Coding Assistant

Hamilton, ON

- Engineered Python algorithms for discrete math validation, helping over 100 students and reducing professors' workload by 5+ hours weekly
- Conducted detailed analysis and refactoring of 50+ Python scripts, pinpointing and resolving performance bottlenecks and bugs, demonstrating strong attention to detail and problem-solving skills
- Enhanced Python scripts through rigorous debugging and unit testing, showcasing a keen eye for detail, which led to a 30% increase in execution speed
- Revamped 30+ pages of advanced discrete math problems for an interactive web-based platform, significantly enhancing user interface and comprehension

PROJECTS

WeatherAPI | HTML, CSS, JavaScript (JSON)

May 2023

- Integrated API for real-time weather data, guaranteeing 97% accuracy in city-specific forecasts, elevating user experience with precise data retrieval.
- Conducted thorough analysis of functional and technical requirements for API integration within web application
- Employed advanced JSON parsing, reducing data retrieval time by 40% for real-time weather updates based on user location, amplifying website functionality and user satisfaction.

PaintApp | Java, JavaFX

March 2023

- Incorporated usages of Agile methodologies, ensuring apid iteration and timely delivery of key features
- Developed a GUI enabling flexible shape customization through object-oriented principles, offering 30% more customizable options
- Implemented Exception Handling and encapsulation, bolstering data reliability by reducing system errors by 95%

RainDash | HTML, CSS, JavaScript, SVG, Bootstrap

March 2023

- Implemented JS calculations for game movement and collision, maintaining a smooth 60fps animation for seamless gameplay across devices.
- Achieved a 90% accuracy rate in collision detection, enhancing the game's responsiveness and challenge
- Utilized Action events for overall functionality, resulting in a 40% reduction in code complexity for better maintenance

LEADERSHIP

Muslim Association of Hamilton

June 2019 – July 2019

Camp Counselor

Hamilton, ON

- Effectively managed and supervised groups of 25-30 camp members, providing guidance and support for a positive experience
- Ensured safety and well-being through daily checks, fostering a secure and inclusive environment for 50+ campers.
- Pioneered and tailored engaging recreational activities for campers, fostering a 99% participation rate and enthusiastic engagement

EDUCATION

Mohawk College of Applied Arts & Technology

Hamilton, ON

Advanced Diploma in Computer Systems Technology - Software Development (GPA 86.7)

Sep 2022 – Dec 2025

Core Courses

Data Structures & Algorithms, Software Quality & Testing, Database Theory, Intro to Networking, Programming in .NET