

# JAMIE WATTON

## Chemical Engineering Graduate & Programming Student

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### Summary

I am chemical engineering graduate from Dalhousie University. I am a problem-solver by nature and have a strong eye for detail. On top of my engineering degree I am pursuing a diploma in IT programming from Nova Scotia Community College. I bring the skill set of an engineer mixed with the mind set of a programmer to create practical applications for real-world use.

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### Skills

- Skilled in Python 3.2
- Proficient in database administration
- Understanding in CSS3 and HTML5
- Familiarity of Windows administration
- Knowledgeable in computer networking
- Proficient in Microsoft 365
- Skilled in Aspen HYSYS
- Proficient in COMSOL Multiphysics
- Skilled using MATLAB
- Skilled in SolidWorks
- Excellent communication skills, both verbal and written, to effectively collaborate with developers, project managers, and stakeholders
- Ability to work in a team environment and contribute to a positive work environment
- Ability to manage multiple tasks simultaneously in order to meet mission critical deadlines
- Proficiently grasps complex concepts and procedures with ease, rapidly integrating them into practical applications

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### Education

#### Diploma in IT Programming

Nova Scotia Community College

January 2024 - December 2025

- Used Python 3.2 in order to program a TicTacToe program and an automated school due dates leveraging standard and non-standard libraries
- Implementation of a entity relationship diagram into a full relational database model using maria Db and data grip
- Used Cisco packet tracer to model real-time networking problems in order to develop a understanding of internet protocols and network media
- Developed visually appealing and responsive web pages using CSS3 and HTML5
- Used a Windows virtual machine to emulate domain management in a small to medium sized organization. Developed an understanding of Microsoft licensing and Powershell scripting

#### Bachelor of Chemical Engineering

Dalhousie University

January 2020 - June 2022

- Completed my engineering capstone project on a idea to conception of a innovative fluidized bed design for the manufacturing of Ibuprofen using Microsoft Excel, Aspen HYSYS and MATLAB.
- Performed an economic analysis for facility capital and recurring costs for a grass roots ibuprofen manufacturing facility
- Designed and implemented a solvent recycling system which resulted in a annual savings of \$200,000 in solvent recovery
- Performed and implemented a in-depth literature review into a written technical design report within a four person team

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## Diploma of Engineering

Saint Mary's University

September 2017 - June 2019

- As part of a team, designed an ethanol sensor-based Arduino system to monitor the early fermentation of beer continuously over the course of 72 hours resulting in a system that could predict the final alcohol content while being a third of the cost of a commercially available device
- Performed calibration of equipment and detailed data analysis in order to ensure product reliability
- Regular presentation to peers on project status, challenges faced and mitigation

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## Work Experience

### Sherwin-Williams Paint Company

Keyholder

February 2021 - Present

- Successfully able to recommend products based on individual customer needs and making recommendations and advising based level of customer subject knowledge
- Routinely work with and help transport hazardous materials and maintain quality assurance standards
- Using quick problem-solving skills and remaining adaptable to fulfill customer and company orders during supply chain challenges in during 2021-2022

### Self Employed

Tutor for math and science

Jan. 2020-Present

- Tailor lesson plans for students of varying skill levels in physics, chemistry, math and calculus
- Have successfully helped students improve their overall grades and test scores

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## Certifications

WHIMIS

2024

Transportation of Dangerous Goods

2024