

Gustaf Delpont



Student

Industrious Student offering an excellent academic background in computer science in addition to a diverse skill set, including leadership, programming, and patience. Dedicated team contributor with a talent for managing deadlines.



Work History

2018-04 –
Current

Bartender

Fatherland Estate, Brits, North West

- Devoted special emphasis to punctuality and worked to maintain outstanding attendance record, consistently arriving to work ready to start immediately.
- Addressed customer inquiries and concerns.
- Assisted servers with specialty drinks orders by preparing on-demand items without delay.
- Kept accurate inventories and notified management of ordering needs for liquor, beer, wine, and bar supplies.
- Handled R6000 cash daily, which built trustworthiness and loyalty with owners.

2020-11 –
Current

Bartender

Onder Engele, Brits, North West

- Learned the fundamentals of balancing stock with the register cash flow and the card transactions
- Worked with Excel to keep a balance of stock levels.
- Offered the venue coordinator advice about key points I noticed whilst working there out of my experience working at Fatherland Estate, we have been working closely since to optimize the flow of the bar.



Contact

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Skills

Leadership

Bilingual in Afrikaans and English

Database Management

Spreadsheet management

Code reviews

Programming

MS SQL Server 2000

2020-02 -
Current

Assistant refrigeration technician

Frost flake refrigeration and air conditioning, Brits, North West

- Assisted Stephan Kriel the owner of Frost flake refrigeration and air conditioning.
- Learned how refrigeration works with the guidance of Stephan Kriel, eventually installing basic air conditioners.
- Kept the stock in check and managing to keep the warehouse in order.
- Was asked to develop a website and application for the owner to grow the business. (Still in progress)

HTML and CSS proficiency



Git



People Skills



Discipline



Education

2019-01 -
Current

Bachelor of Science: Information Technology

Belgium Campus - Pretoria

2014-01 -
2018-12

High School NSC

Brits High - Brits



Accomplishments

- Achieved honors clothing in leadership during high school (4 years of service on SRC and prefect).
- Achieved a nearly perfect distinction record for 1st year and going strong in 2nd year (20/21 as of this moment)
- Completed the RoboCode challenge on HackeRack. The challenge involved me creating a robot tank from a set of given classes to ultimately win against other robot tanks that were already programmed.
- Achieved North-Gauteng senior clothing in SANSSU (South African National School Shooters Union) and went to the South African national for three years. I learned a lot of discipline.

- Achieved the privilege to be the team lead for a third-year project, the project was initially proposed by myself and was chosen as a viable solution.



Languages

Afrikaans



English



Certifications

2018-12	Leadership
2020-09	IBM masterclass (Mainframe)
2020-09	IBM masterclass (Crypto)
2020-11	Udemy C# learn C# Fundamentals – Mosh Hamedani
2020-12	Udemy C# learn C# Classes, Interfaces, and OOP – Mosh Hamedani



Interests

Learning

AI/Quantum computers

Video Games

Exercise

Rugby – Golf

Building useless Arduino projects

Engaging with interesting people



Exposure and projects

Overview

Currently, I am studying at Belgium Campus ITVersity, I finished my second and first year with a fine understanding of the industry and I am keen on learning more as I have 2 years left to study.

Coding languages

- **C#:** I have been using C# for around 2 years now
- **C++:** I have a fundamental understanding of c++ only using it to program Arduinos.
- **Java:** I have been working/learning with java for about 6 months now.
- **Delphi:** Delphi was the first language I learned in high school and I have been tutoring high-school students ever since.
- **HTML/CSS/JavaScript:** I believe everyone should know these three complimentary languages even just at a basic level. I have been working with them for around 3 years now.

Projects

2nd Year project

I was tasked to create an airforce scouting program that could at random fly an aircraft with different payloads through an area with AA (Anti Aircraft) artillery and squadrons patrolling the area.

Each aircraft had radar that detects enemy radar space and could not be detected by enemies unless they entered the enemy's radar (each Object on the map).

I then decided to use a BFS knowing the area is 2D and BFS will try to find the shortest path between two nodes/points.

How did my Breath first search work?

Like any BFS algorithm, we start by having our starting node look if it can queue them (if they met condition: Not in enemy radar space) this goes on by en queueing and queueing all the nodes until the set scouting location is reached. Because I stored the parent queue of each queue I was able to trace back the shortest path the aircraft could fly safely.

That is just a simple explanation of how it works I could have used Dijkstra, A*, or DFS algorithms, but BFS was the most appealing.

Arduino weather stations

I was asked to create little IoT devices that a nartjie farmer can plant in his orchard to monitor water levels and determine humidity and temperatures. The plan was to use small Arduino's with various sensors to monitor the state of the ground and tree sharing the information via wifi, I created a prototype and presented it to the farmer and he was very pleased.

Operations have yet to proceed since this was very recent he wanted to plan a little bit more and give me a definite answer later on.

Bar general management program

I believe the only way to truly learn is to do things that are closely related to the everyday task you perform. I was not asked to create a program that could give a productive understanding of the logistics and stock of the bars I work at.

In my first year, I tried to create such a program but with limited understanding (*then*) I created a GIGO program that I am not proud of (*Compared to what I could have done had I the understanding I have now.*)

This December I want to create the Bar management program I dreamed about in my first year. The plan is to give the program to the owners of the bars I work at to improve my own experience there and hopefully give them a more optimized decision when buying stock.

Auto Greenhouse (third-year project)

In my third year, we were supposed to propose a system that can provide a solution to any of the 17 Sustainable Development Goals. I proposed a greenhouse that can be monitored via a web interface and that has autonomous features that will enable it to become semi-self-reliant. The system is still entirely under development and I am leading a team during the third year to accomplish our goal of achieving a semi-self-reliant system.

Small but mentionable

- Created a couple of websites for free or for fun for friends and family
- Debugged a lot of peer student's code and tutored them,
- I have a Discord channel dedicated to friends and friends of friends who ask me questions related to anything relating to IT and Maths. (This is how I study I learn better if I explain work to other people)