

47 Cathcart Street  
Greytown, 3250  
065-811-7373  
ashishr0301@gmail.com

# Ashish Ramnath

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## SKILLS

C++, GUI Development, High Level Problem Solving with C++, HTML, CSS, Javascript, Python, Web Framework-Django, Web Dev and Design, SQL, RDBMS with SQL, Systems Analysis and Systems Design, High Level Mathematical Skills, Analytical Skills, Problem Solving skills, Data Structures and Algorithm Design, Object Oriented Analysis and Program Design, Experience with Computer Networking, Experience with Pandas, Numpy, Matplotlib, Seaborn.

## Project Experience

### **C++, GUI Development** – *Product Management System*

- This System allows a User to Create, Read, Update, Store, and Delete a Product.
- The System is built using C++, QtCreator (GUI), CSS, and OOP Principles and can therefore be adapted to Manage Various Objects.
- The System is a GUI and therefore provides a user-friendly interface to interact with the system.
- C++ is my forte, honed over years to surpass the intermediate level

### **Python, Pandas, Numpy, Matplotlib, Seaborn, Data Science** – *War Fatalities Analysis*

- This project leverages a variety of techniques to process, clean, and draw inferences from data spanning 23 years, pertaining to the numerous conflicts between Israel and Palestine. The data contained 177984 unique data points.
- The tools utilized to accomplish this project include Python, Jovian, Jupyter, Pandas, NumPy, Matplotlib, and Seaborn.
- Several visualizations were used to present the outcomes, making it easier to draw inferences.
- The outcome of this project serves as a foundation for forming an unbiased, data-driven analysis, and data-backed information.

### **Python, Pandas, Numpy, Jovian, Matplotlib, Seaborn, Data Science** – *South Africa Crime Analysis*

- This project leverages a variety of techniques to process, clean, and draw inferences from data spanning 12 Financial years, pertaining to the crime in South Africa. The data contained 18672 unique data points.

- The tools utilized to accomplish this project include Python, Jovian, Jupyter, Pandas, NumPy, Matplotlib, and Seaborn.
- This project utilized a large number of plots to provide clear visualizations to further extract meaningful information.
- The outcome of this project serves as a foundation for forming an unbiased, data-driven analysis, and data-backed information.

### **C++,Data Structures & Algorithms, Simulation** – *Application of Data Structures: Simulation*

- This system is one of many I have built to simulate the behavior of real systems.
- The system allows the user to experiment with the simulation without the large costs and dangers of working with the real system.
- The simulated system can easily be adapted to a time-driven simulation.
- The outcome of this system serves as a means to test an expensive system using simulation techniques.

### **Python,CSV,MS Office,Google Sheets,Data, Data Validation and Entry** –

- This system leverages Python and its many utilities to validate data from a source(s), make corrections if needed, and write the data to some final Location.
- The outcome of this system allows the user to, with minimal adjustment, read data from a source(s), validate it, correct it, and write it to a new source.

### **Python,Flask,HTML,CSS,Javascript,API, Real time** – *Stock Trading website*

- This is my Final Project for the Harvard CS50 Course.
- The system allows users to create, and manage a stock purchasing account with Real Time stocks and Dummy Money.
- You can view your stock investments in real time.

## **EDUCATION**

### **University of South Africa, Degree**– *Bachelor of Computer Science*

Current Final Year Student.

Apart from my background in Computer Science, I also have a Background in BCom.

### **Distinctions**

COS1511,COS1521,INF1505,INF1520,MAT1512,COS2626,STA1610,COS2601,COS2611,COS2614,COS2621,COS2626,ICT2621.