

Sunraj Sharma

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EDUCATION

Software Engineering Diploma | [Conestoga College](#) | [Waterloo, ON](#)

2020-2022

- ◆ **Relevant courses:** Relational Database, Data Structures, Math & Statistics, Web Development and Cybersecurity.
- ◆ **Extra Curricular:** Conestoga Entrepreneurship Collective's Venture Lab Client, Accelerator centre Client, Google Developer Club member.

EXPERIENCE

Software developer | [InvestorCOM](#)

Aug 2022 - Nov 2022

- ◆ Worked in agile environment provided application support for legacy systems based on **VB.NET** and **C#**.
- ◆ Also worked as a **data analyst for the administrative team**, where I **designed** and **automated data extraction** and **data transformation** processes using **SQL** and **VBA scripts** resulting in improved data quality and **reduced processing time by up to 50%**.
- ◆ Designed **Excel visualizations** that effectively **conveyed insights** on the utilization of Fund Performance API **to the administrative team**.
- ◆ **Tech Stack:** VBA, VB.NET, T-SQL, SQL Server, MS Excel, C# (.NET), ASP.NET, Azure devOps.

Co-founder | [HOOD](#) | <https://tryhood.com/>

May 2020 - Present

- ◆ Cross-platform **carpooling app** aiming to **reduce transportation costs and time by up to 70%**, compared to Uber and bus.
- ◆ Conducted **business analysis**, **market analysis**, **market research** and **consumer behaviour analysis**.
- ◆ Gained experience in **financial modelling**, providing valuable insights used in **financial forecasting** and **budgeting**.
- ◆ Gained exposure to **application development**, providing a better understanding of **software development lifecycles** and **methodologies**.
- ◆ **Mentored** by industry experts heading major departments at Conestoga College, including the **Director of Venture Lab** and the **Chair of IT**.
- ◆ **Received mentorship** from the **world's top 3rd business incubator**, **The Accelerator Centre**, and partnered with **Microsoft for Startups**.

Freelance Software QA Tester | [Tester Work](#)

May 2021 - Present

- ◆ Conducted comprehensive **testing for desktop and mobile applications**, for **companies such as Google, Facebook/Meta, BetMGM and Microsoft** to ensure the apps meet software requirements and deliver a quality user experience
- ◆ Performed **User Acceptance Testing (UAT) on software applications** to ensure optimal performance and functionality, which were then concluded in a detailed reports as per company request..
- ◆ Utilized **Requirements Traceability Matrix (RTM)** to establish traceability between software requirements and their corresponding test cases, thereby ensuring complete test coverage and facilitating the accurate tracking of defects to their source.
- ◆ Executed **exploratory testing to detect potential software defects** that may have been missed by the formal test cases or requirements.

PROJECTS

Financial Analysis and Risk Management

Nov 2022 - Dec 2022

https://bit.ly/Financial_Analysis_and_Risk_Management

[Python](#), [Numpy](#), [Pandas](#), [Jupyter Notebooks](#)

- ◆ Automated python program to provide comprehensive **quantitative stock analysis**, **risk assessments**, and **future stock price prediction**.
- ◆ Uses python to **extract** and **explore the data** and to generate **line and candlestick charts** for **analysis**, between set of multiple companies.
- ◆ Utilized **risk management techniques** like, **percent change calculations**, **standard deviation measurement**, and **year-over-year standard deviation** analysis to **predict companies to avoid**.
- ◆ Created **visualizations** like **Simple Moving Average**, **Golden Cross**, and **Bollinger Band Plots** to **evaluate investment opportunities** based on **volatility and market calmness**.

Covid 19 Global Impact Analysis

Dec 2022

https://bit.ly/Covid19_Impact_Analysis

[SQL Server](#), [SQL](#), [MS Excel](#), [Tableau](#)

- ◆ Performed **extensive COVID-19 data analysis** for **big data** of about **150+ countries**, covering **cases**, **deaths**, and **infection rates** from **year 2019 to December 2022**. **Extracted**, **organized**, and **summarized massive dataset** to draw meaningful insights.
- ◆ Utilized functions like **CTE's** and **Temp Tables in SQL Server** to **clean** and **organize the data**, resulting in an organized dataset.
- ◆ Analyzed the data using **SQL queries**, and presented the **summarized data** using **Tableau** with various maps and graphs

Transport Management System

Oct 2021 - Dec 2021

<https://vimeo.com/745878235>

[C#](#), [.NET Framework](#), [XUnit WPF](#), [MySQL](#), [XAML](#), [SCRUM](#)

- ◆ **Assessed**, **researched**, and **analyzed business** and **system requirements** to design and develop Transport Management System using **C#(.Net)** with **SCRUM** and **Agile methodologies** and handling **database** using **MySQL**.
- ◆ Designed and documented the system design using **Class Diagram**, **Sequence diagram**, **Use Case diagram** and **Schema diagrams**.
- ◆ Backend was implemented **using C#**, and conducted **unit testing in XUnit** following test-driven development (**TDD**) methodology.

✓ **A summarized list of all projects is available at:** https://sunraj751.github.io/Sunraj_Portfolio/

CERTIFICATIONS

Feb 2023 Microsoft & LinkedIn, Data Analysis

Cert Link: https://bit.ly/Microsoft_Data_Analysis

Jan 2023 CBRE, Project Management Virtual Experience Program

Cert ID: 7ARfPyTxnq8ZQDYPw

Nov 2022 PMI & LinkedIn, Business Analysis Foundation

Cert ID: AZUmUIRIAwEABuXaOI2zJyNCrtw

Nov 2020 Google, Digital Marketing

Cert ID: 9J8P6YN9M

SKILLS

Languages: C, C++, C#, Python, SQL, T-SQL, VBA, VB.NET, Javascript, Java, HTML/CSS, Bash scripting

Framework & Libraries: MySQL, .NET Core & Framework, React.js, Typescript, Angular, yfinance, Pandas, Numpy, Plotty

Tools: MS Excel, Tableau, PowerBI, SQL Server, Visual studio, Jupyter Notebooks, Github, Azure, AWS

Other Skills: Data Analytics, Ethical Hacking, Project Management, UI/UX Design, Agile Methodologies, RDBMS, Test Driven Development