

Brashan Mohanakumar

brashanm@gmail.com | 647-200-3485 | <https://brashanm.github.io>

<https://github.com/brashanm> | <http://www.linkedin.com/in/brashan-mohanakumar>

Education

University of Waterloo

Sept 2021 – April 2026

Bachelor of Computing and Financial Management, 1B (Double Major in Computer Science and Finance)

Summary of Skills

- Excellent communication, analytical and problem-solving skills
- Ability to learn in a fast-paced environment
- A team player who can adapt to the work environments and deliver results

Technical Skills

Languages: Python, JavaScript, SQL, HTML, CSS, C

Technologies: Jupyter, NumPy, Pandas, Seaborn, Matplotlib, Plotly, Scikit-Learn, Spark, TensorFlow, Git

Office Tools: Word, Excel, PowerPoint & Outlook

Projects

SAPA (Sports Analytics Portfolio Application) Development

- **Purpose:** Designed and implemented a solution to pro-actively provide analytical data and visualization of team and player statistics in real time
- Utilized NumPy and Pandas to perform data manipulation and analysis of player / team statistics data
- Implemented data visualization using Seaborn/Matplotlib and utilizing pandas data structures
- The application resulted in successfully being able to import data from an NBA API and analyze team/player statistics in the visualization format identified in design phase
- **Technologies:** Jupyter Notebooks, Python, NumPy, Pandas, Seaborn, Matplotlib, Plotly

Stock Portfolio Creator

- **Purpose:** Dynamically selects a portfolio of risky S&P 500 stocks without any human intervention
- Successfully imported Yahoo Finance to utilize and manipulate data needed to perform necessary mathematical and financial calculations on S&P 500 stocks
- Utilized NumPy to perform complex mathematical functions such as finding the beta value of a given stock to determine its riskiness
- Utilized Pandas to read .csv file of S&P 500 stocks and perform data manipulation and analysis
- The application resulted in successfully being able to create an investment portfolio of ten high-risk S&P 500 stocks
- **Technologies:** Jupyter Notebooks, Python, Yahoo Finance, NumPy, Pandas

Personal Website

- **Purpose:** Developed a responsive, dynamic & performant e-portfolio web application from scratch
- Integrated animations in parts of the web application to draw users in and provide a more pleasant and responsive experience for the user
- **Technologies:** HTML, CSS, JavaScript

Professional Experience

Independent

Ontario, Canada

Programming Tutor

September 2020 – May 2021

- Taught high school students with core concepts of programming including variables, data structures, control structures, data flows, functions, syntaxes, and libraries

Digital Photo Lab

Ontario, Canada

Sales and Cash Associate

June 2019 – July 2021

- Successfully handled regular transactions for credit cards, debit cards, gift cards, mobile payments, and cash
- Developed personal communication skills with customers on a regular basis
- Assisted in supervising and training new employees