

# Brashan Mohanakumar

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## 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, SQL, HTML, CSS, JavaScript, 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

## 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