Brashan **Mohanakumar**

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Professional Experience

Ace Beverage Group Inc. Ontario, Canada
Sales and Operations Analyst September 2020 – May 2021

- Designed and implemented a company-wide solution to automate sales data pulls and data entries using **Selenium**, **NumPy, Pandas,** and **Python**
    - Implemented Page Object Model (POM) framework with Python and Selenium
    - Applied **Python scripts** on **Raspberry Pi** to regularly automate data entry on a weekly basis
- Managed EDI Integration project to connect Oracle's NetSuite to LCBO database

Technical Skills

Languages: JavaScript, Python, SQL, HTML, CSS, C++, C, Bash
Technologies: MERN Stack, MongoDB, Express.js, React.js, Node.js, jQuery, REST API, Git, Jupyter, NumPy, Selenium, Pandas, Seaborn, Matplotlib, Plotly
Office Tools: Visual Studio Code, Word, Excel, PowerPoint, Teams, & Outlook

Projects

TTD Kicks eCommerce Web Application Development

- **Purpose:** Developed a full-stack eCommerce web application to commercialize a small business
- Utilized the **MERN** tech stack to develop a dynamic, responsive, and secure web application for customers trying to view or purchase merchandise
- Implemented **REST APIs** to handle customer transactions regarding purchasing merchandise
- Application resulted in increased viewership of the merchandise and increased number of purchases
- **Technologies**: JavaScript, React, MongoDB, Express.js, Node.js, jQuery, Git, HTML, CSS

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 **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

Education

University of Waterloo Sept 2021 – April 2026
Bachelor of Computer Science
Computer Science, Honours, Co-operative Program