Brashan **Mohanakumar**

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Professional Experience

Full-Stack Software Developer Ontario, Canada
TTD-Kicks August 2022 - Present

- Developing a full-stack eCommerce web application to commercialize a small business
- Utilized the **MERN** stack to develop a dynamic, responsive, and secure web application for customers trying to view or purchase merchandise
- Designed a user-friendly and responsive UI/UX using **Figma** and implemented it using **React.js** and **Bootstrap**
- Developed an extensive back end using **Express.js** to connect to a **MongoDB** database with the help of **Mongoose** and **Node.js**

Sales and Operations Analyst Ontario, Canada
Ace Beverage Group Inc. May 2022 – August 2022

- 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, C++, C, SQL, HTML, CSS, Bash
Technologies/Frameworks:	MongoDB, Mongoose, Express.js, React.js, Redux, Node.js, Bootstrap, REST API, Git, Jupyter, NumPy, Selenium, Pandas, Seaborn, Matplotlib
Tools:	VS Code, Figma, Jira, Confluence, Slack, Word, Excel, Teams, & Outlook

Projects

SAPA (Sports Analytics Portfolio Application)

- **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
- Resulted in being able to import data from an **NBA API** and analyze team/player statistics
- **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
- 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 to filter out stocks that did not meet a given rate of return threshold
- The application resulted in successfully being able to create an investment portfolio of ten high-risk S&P 500 stocks that developed a positive rate of return
- **Technologies**: Jupyter Notebooks, Python, Yahoo Finance, NumPy, Pandas

Personal Website

- **Purpose**: Developed a responsive 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

Education

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