

# BRASHAN MOHANAKUMAR

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🌐 <https://github.com/brashanm> 🌐 [brashanm.github.io](https://brashanm.github.io)

## EXPERIENCE

### Software Developer

January 2023 - April 2023

TutorBright

Toronto, ON

- Led the design and development of the resources page on the main web application, leveraging **Angular, Node.js, Express.js, and MongoDB** to enable the retrieval, search, preview, and download of files from a server **API**, resulting in an improved user experience for students and tutors alike
- Designed and implemented a new Programs tab on client profiles utilizing **Angular and Node.js**, enhancing student program organization and introducing seamless options to view, edit, and remove. Significantly improved workflow for students and tutors and streamlined management for the company

### Sales and Operations Analyst

May 2022 - August 2022

Ace Beverage Group Inc.

Toronto, ON

- Designed and implemented a company-wide solution to automate sales data pulls and data entries using **Selenium, NumPy, Pandas, and Python**
- 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

## SKILLS

### Languages

JavaScript, TypeScript, Python, C++, HTML, CSS, C, SQL

### Technologies/Frameworks

Angular, React, MongoDB, Mongoose, Express.js, Node.js, Bootstrap, REST API, Jupyter, Pandas, NumPy, Selenium, Seaborn, Matplotlib

### Tools

VS Code, BitBucket, Git, Figma, Jira, Confluence, Slack, Bash

## PROJECTS

### TTD-Kicks eCommerce Website

[Source Code](#)

- Utilizing the **MERN** stack to develop a dynamic, responsive, and secure eCommerce web application for customers trying to view or purchase merchandise
- Designed a user-friendly and responsive UI/UX using Figma and implementing it using **React and Bootstrap**
- Developing an extensive backend using **Express.js** to connect to a **MongoDB** database with the help of **Node.js**

### SAPA (Sports Analytics Portfolio Application)

[Source Code](#)

- Designed and implemented a **Python** solution to pro-actively provide analytical data and visualization of team and player statistics in real time
- Utilized **NumPy and Pandas** to perform data analysis on player and team statistics from an **NBA API**
- Implemented data visualization using **Seaborn/Matplotlib** to exhibit statistical findings on a **Jupyter Notebook**

### Stock Portfolio Creator

[Source Code](#)

- Developed a **Python** script that dynamically builds a portfolio of profitable stocks using data from Yahoo Finance
- Reads a .csv file of current S&P 500 stocks while performing data manipulation and analysis to filter out stocks that do not meet a given rate of return threshold using **NumPy and Pandas**
- The application resulted in successfully creating an investment portfolio of ten high-risk S&P 500 stocks that developed a positive rate of return of 10%

## EDUCATION

Bachelor of Computer Science, University of Waterloo

September 2021 - April 2026