

Brashan Mohanakumar

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EXPERIENCE

Software Developer

January 2023 – April 2023

TutorBright

Toronto, Ontario

- Led the design and development of the resources page on the main web application, leveraging **Angular**, **Node.js**, **Express.js**, and **MongoDB**.
- Enabled seamless retrieval, search, preview, and download of files through a server **API**, resulting in a significant increase in file search/retrieval speed and an enhanced user experience for students and tutors
- Improved student program organization by designing and implementing a programs tab within client profiles with **Angular** and **Node.js**
- Developed user-friendly options for viewing, editing, and removing programs resulting in streamlined workflow for students, tutors, and company management

Sales and Operations Analyst

May 2022 – August 2022

Ace Beverage Group Inc.

Toronto, Ontario

- Designed and implemented a company-wide solution to automate sales data pulls and data entries using **Python**, **NumPy**, **Pandas**, and **Selenium** resulting in significant time savings and increased accuracy
- Deployed Python scripts on Raspberry Pi to automate data entry tasks on a weekly basis
- Improved efficiency by eliminating manual data manipulation and ensured consistent and reliable updates to the database

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C/C++, HTML, CSS, SQL

Technologies/Frameworks: Angular, React, Redux, MongoDB, Mongoose, Express.js, Node.js, Bootstrap

Analytical Libraries: Pandas, NumPy, Selenium, Seaborn, Matplotlib

Developer Tools: VS Code, BitBucket, Git, Jupyter Notebooks, 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**
- Developing an extensive backend using **Express.js** and a **MongoDB** database storing inventory data

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 & team statistics from an **NBA API**
- Visualized data using **Seaborn/Matplotlib** to show 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 10 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