BRASHAN MOHANAKUMAR

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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