Brashan Mohanakumar

📞 647-200-3485 ✉ brashanm@gmail.com 💼 linkedin.com/in/brashan-mohanakumar
🐙 github.com/brashanm 🌐 brashanm.github.io

EXPERIENCE

Software Developer   January 2023 – April 2023
TutorBright   Toronto, Ontario

- Led the design and development of the resources page for the upcoming 3.0 version of 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 enhanced user experience for students and tutors
- Improved student program organization by designing and implementing a programs tab on 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