

# Brashan Mohanakumar

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

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, Swift, C++, C, HTML, CSS, SQL

**Developer Tools/Frameworks:** SwiftUI, Angular, React, MongoDB, Express.js, Node.js, GraphQL, Kafka, Redux

**Data Science Tools:** Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Flink, Spark, Hadoop, Selenium, Seaborn

**Technologies:** VS Code, XCode, BitBucket, Git, Docker, Kubernetes, Jupyter, Postman, AWS, Terraform

## EXPERIENCE

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### Founder

November 2023 – Present

Trims (Barbers Near Me)

Toronto, Ontario

- Designing and developing a mobile application that provides a platform for emerging barbers to establish their brands while enabling customers to effortlessly discover nearby barbers
- Engineering an intuitive user interface using Swift and SwiftUI, enabling users to find nearby barbers and schedule appointments seamlessly, while also implementing a database for efficient barber and user data management
- Soon to be deployed on Apple App Store

### Full Stack Developer

September 2022 – August 2023

TTD-Kicks

Toronto, Ontario

- Led the end-to-end creation, development, and deployment of a high-yielding eCommerce web application resulting in a revenue stream exceeding \$70,000
- Crafted an immersive and responsive user interface using React and TypeScript, elevating user engagement and optimizing navigation flow to deliver a seamless and intuitive purchasing experience
- Pioneered a robust back-end infrastructure using Node.js, Express, GraphQL, & MongoDB managing intricate inventory data, fine-tuning platform responsiveness, and bolstering data security protocols

### Software Developer

January 2023 – April 2023

TutorBright

Toronto, Ontario

- Led the design and development of the resources page on the main web application, leveraging MongoDB, Express.js, Angular, and Node.js, benefiting a user base of over 60,000 students and tutors
- Enabled seamless file retrieval, search, preview, and download functionalities through a server API, resulting in a 33% reduction in file search and retrieval time over the previous system
- Optimized student program management by introducing a dedicated programs tab within client profiles, complete with options for program viewing, editing, and removal

### Data 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 a 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, resulting in a 75% reduction in manual task time and 88% decrease in data entry errors

## PROJECTS

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### SAPA (Sports Analytics Portfolio Application)

 [Source Code](#)

- Designed and implemented Python solutions to provide analytical data insights and visualization of NBA statistics
- Utilized NumPy and Pandas to perform data analysis on player and team statistics from an NBA API
- Visualized data using Seaborn and Matplotlib to communicate complex analytical findings on a Jupyter Notebook
- Implemented machine learning methodologies from Scikit-learn to analyze NBA statistics, resulting in the creation of a predictive model that achieved a 67% accuracy in forecasting game outcomes for the NBA season

### LyricLink

 [Source Code](#)

- Developed a user-friendly iOS application using Swift, SwiftUI and REST APIs that provides real-time translation of lyrics into the user's preferred language, enhancing the global accessibility of music content
- Designed and implemented a streamlined algorithm that significantly optimized performance and reduced API request latency, thereby enhancing the app's responsiveness and ensuring an efficient and seamless user experience

## EDUCATION

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**Bachelor of Computer Science, University of Waterloo**

September 2021 – Present