Brashan Mohanakumar

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TECHNICAL SKILLS

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

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

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

LyricLingo — 🐙 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

Bachelor of Computer Science, University of Waterloo — September 2021 – Present