Brashan Mohanakumar

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github.com/brashanm brashanm.github.io

Technical Skills

Languages: JavaScript, TypeScript, Python, Swift, C++, C, HTML, CSS, SQL
Technologies/Frameworks: Angular, React, Redux, SwiftUI, MongoDB, Mongoose, Express.js, Node.js, Bootstrap
Data Science Tools: Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, OpenCV, Selenium, Seaborn, Matplotlib
Developer Tools: VS Code, XCode, BitBucket, Git, Docker, Kubernetes, Jupyter, Postman, AWS, Terraform

Experience

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 using MongoDB, Express.js, React, and Node.js, resulting in a revenue stream exceeding $70,000
- Crafted an immersive and responsive user interface, elevating user engagement and optimizing navigation flow to deliver a seamless and intuitive purchasing experience
- Pioneered a robust back-end infrastructure 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 90% reduction in manual task time and 95% decrease in data entry errors

Projects

SAPA (Sports Analytics Portfolio Application)

- 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 player & team statistics, resulting in the creation of a predictive model that achieved a 67% accuracy in forecasting basketball game outcomes

Trims (Barbers Near Me)

- Designed and developed a mobile application that provides a platform for emerging barbers to establish their brands while enabling customers to effortlessly discover nearby barbers
- Engineered an intuitive user interface using Swift and SwiftUI, facilitating seamless options to find barbers in the area and schedule appointments in the app
- Soon to be deployed on Apple App Store

Education

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