Puranjoy Saha

Computer Engineering

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puranjoySaha

Skills

- Languages: Java, C#, JavaScript, C, C++, SQL, HTML, CSS, XML, Python, Git
- Libraries and Frameworks: .Net core, Azure, Xamarin, ASP.NET, TensorFlow, Dapper, MongoDB, React, ARKit

Work Experience

Multimedia/Software Developer

Jan 2020 – Apr 2020

Blackberry Limited

- Developed a log analysis tool which will be used to process and debug company and customer log files.
- Rapidly prototyped various machine learning algorithms able to detect anomalies in a log file with an 95% accuracy.
- Incorporated multiprocessing and multithreading into the log analysis tool making it run 5x faster.
- Designed a NoSQL database in MongoDB that is able to handle custom footprints and provide queried data 40% faster.
- Developed a data visualization dashboard showing machine learning models and hyperparameters for large data using python with a user-interface architecture and navigation system that increased user satisfaction rating by 50%.

Full Stack Web and Mobile Developer

May 2019 - Aug 2019

Calgary Board of Education

- Designed and developed an admin portal web application using ASP.Net and SQL server 2019.
- Developed **cross platform Employee Directory application** supporting both (Android and iOS) using Xamarin.
- Implemented authentication and authorization services using OAuth 2.0 increasing the security of both applications by 95%.
- Implemented a backend data API using Azure to get real time data updates, increasing mobile app performance by 40%.

Software Developer

Sep 2018 – Present

Waterloo Alternative Fuels (Connected Software sub team)

- Designed and developed a mobile application that is capable of ridesharing and allows for interfacing with the vehicle to give real time updates about the car using React Native.
- Developing a driver drowsiness detection application to increase the security of the overall car using Python and OpenCV.

Projects

Joy Cart – Ecommerce website (React, Django)

Apr 2020

- Designed a responsive ecommerce website with an easy to navigate UI with React.
- · Implemented a payment system with stripe that allows users to buy products and keep track of their payments.
- Used the Django framework to integrate authentication and drive the backend for this project.

Aware – App to help people with visual impairment (Swift 4)

Feb 2020

- Developed an iOS app that uses machine learning to identify surrounding environment and objects.
- · Integrated audio output and communication system allowing vocal interaction using apple's speech API.

Education