Puranjoy Saha

2B –Computer Engineering

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# 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

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| **Multimedia/SoftwareDeveloper** | 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%.**

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| **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%.**

# 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.

## Home Pros – Room Searching Website (React, MongoDB) June 2020

* Developed a room renting website using React and MongoDB that allows users to view various suites available at a resort.
* Implemented data syncing functionalities between the backend API and application allowing easier management of data.
* Integrated a complex search functionality that allows users to filter results and find their choices easily.

## 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 that allows for users to interact with the application vocally using apple’s speech API.

# Education

Candidate for BASc Computer Engineering, University of Waterloo Sep 2018 – Apr 2023