Manmeet Singh

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Education

University at Buffalo | Computer Science BS | Expected May 2020

University at Buffalo | Certificate in Game Studies | Expected May 2020

University at Buffalo | Certificate in Data Intensive Computing | Expected May 2020

Experience

Noobis | Intern | June 2015 – September 2015

- o Introduced to HTML, CSS and JavaScript while interning, developed professional relationships with company owner and employees and developed communication skills for meetings and presentations.

Sunoco Gas | Owner | January 2015 - present

- o Fourth family owned business in Buffalo
- o Handled customers, stocked inventory, managed employees, handled sales reps and more.

Projects

B.R.A.D | UB Hacking November 2018 1st Place Winner

- o Member of a team on the project B.R.A.D. an AI application implementing machine learning to classify breast cancer tumors as benign or malignant. Personal responsibilities included feature selection, model performance comparison, hyper-parameter tuning and accuracy testing as well as designing the web application, implementation of the backend, and communication between the app and python script

Word Clouds

- o Data aggregation from more than one source using the Twitter API and New York Times API as well as Web Crawl using AWS S3 services. Applied classical big data analytics method of MapReduce to the unstructured data collected using AWS Elastic Map Reduce (EMR) and built a visualization data product using d3.js.

PubSub Docker

- o Emulated a pub/sub system using docker technology. Created a web application using Bootstrap and ExpressJs in which users can input a small program in selected languages, and a compile which would load the program in Docker and execute it. The result of execution is displayed on the web output area.

My WayPoints

- o A full stack web application that utilizes the Google Maps API and Open Weather API to get directions and weather between two points. Developed in HTML, CSS, JavaScript, MongoDB, NodeJs, ExpressJs, and AngularJs

Research

Scalable Computing Research (ScoRe) Group

- o Active researcher under Dr. Jaroslaw Zola, working on salable Bayesian network learning and applications
- o Primarily involved with extending the SCoRe Group's Scalable Accelerated Bayesian Network Analytics ToolKit (SABNAtk) fast counting query capability to interface with other popular machine learning algorithms

Skills

- o Experienced with various programming, markdown, scripting, and analytical languages such as C++, C#, Python, JavaScript, sh, bash, R
- o Experienced in tools such as Unity, Unreal Engine, Adobe Photoshop, Illustrator, Premier, and Fl Studio
- o Experienced in Python machine learning, data science, and computer vision libraries
- o Proficient in the Linux environment, command line, as well as the Git version control system
- o Knowledgeable in a variety of AWS services
- o Proficient with web technologies such as HTML5, CSS, Angualar, Node.js, MongoDb and more
- o Native Speaker in Punjabi, English and Hindi