

Jaskeerat Brar

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Education

University at Buffalo | The State University of New York

Bachelor of Science in Computer Science, Bachelor of Arts in Applied Mathematics

August 2016 – Present

Expected Graduation, May 2020

Skills

Programming: Java, Python, C++, JavaScript, HTML, CSS, MongoDB, Git, Google Cloud, Firebase, Swift, Assembly

Hardware: Cisco switches, Aruba access points, Lantronix console servers

Experience

Department of Physics | University at Buffalo

Jan 2019 – Present

Research Assistant, Particle Physics

Researching in a study about explainable AI (XAI) in Machine Learning (ML). Technologies used: Python, TensorFlow, Docker

Network and Communications Services | University at Buffalo

May 2017 – Present

Network Operations Assistant, Network Engineering

Department responsible for design and engineering of network architecture for 3 campuses

- Configured, installed and analyzed data of access points. Created fast and effective install procedures
- Solved and catered to client's issues through Salesforce ticketing system

Soccer Referee, Campus Dining Assistant | University at Buffalo

Dec 2016 – May 2017

Projects

Palatable

MongoDB, Node.js

UB Hacking 2018 (winner)

An iOS application meal kit prototype. Developed and managed backend

- Refined node queries towards database. Upped success rate for correct queries from 40% to about 90%

Analytics

Experience from research in particle physics, machine learning and mathematical courses

- Created commands for scalable problems in Differential Equations and Linear Algebra courses
- Implemented a Recurrent Neural Network and Deep Learning for MNIST quickdraw dataset

Maple, Python

Python, TensorFlow

SW/Web Dev

Software and other coding projects

- Designed personal website for a capstone project. Used Git for version control.
- Collaborated towards developing a fractal visualization software in Java
- Coded a program which processes DNA sequences & applies base conversions for faster query results
- Developed a real-time based messaging iOS application

Bootstrap, HTML, CSS

Java

C++

Swift, Firebase, XCode

Experience and Awards

Winner: Best use of Wegmans API

Scholarship: Recipient of University at Buffalo Merit Scholarship

Member: Association of Computing and Machinery (ACM), Scientista, Inve[n]s|t, Badminton Club

Presenter: Presented research at annual University at Buffalo Celebration of Student Academic Excellence Event Spring 2019