JAGVIR DEHAL

SOFTWARE DEVELOPER

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Skills

LANGUAGES

Python
Node.js
JavaScript
C
C++
C#
MySQL
MariaDB
PHP
BF

SOFTWARE

Linux
Git
GitHub
Tensorflow
Apache
LAMP
SSH & FTP
Bash/Shell Scripting
NMAP
RTMP

HARDWARE

Arduino
Raspberry Pi
Custom PC

OTHER APIS AND TOOLS

React Native
Vue.js
Android Studio
Microsoft Azure Cloud
AWS
Bootstrap
Nimble Streamer
CentovaCast

HACKATHONS

StarterHacks 2020
Hack the North 2019
ETHWaterloo 2019
VikingHacks 2019
PCHacks 2019
WolfHacks 2018
Hack the Hammer 2018
UofT Local Hackday 2017

Summary of Qualifications

- 5 years of Python experience with projects and competitions
- Proficient with C/C++ and experienced working with Java
- Excellent collaboration in a fast-moving, team environment; demonstrated by 14 time-limited, team-based competitions and events
- Very comfortable with Unix/Linux environments
- Quick learner, demonstrated by learning enough Node.js to create a web scraping app in an afternoon

Relevant Projects

Keystone Tutoring · Apr. 2019 - June 2019

- Web app that connects students with tutors from their school
- Gives senior students an opportunity to earn volunteer hours by tutoring younger students
- Created using Node.js, MySQL, and other JS libraries

Braille Box - Hack the North · Sept. 2019

- Produces tactile Braille characters given any kind of text input
- Characters are produced by rotating two seven-sided wheels, where each face has a combination of three raised bumps
- Programmed in C++ and created using an Arduino, servo motors, and ultrasonic sensors at Hack the North

BF Language Interpreter · Jan. 2020 - Present

- Reads BF code from a text file and produces output
- Currently working on a code visualizer and debugger
- Created using Python

University Webscraping App · Dec. 2018

- Web app that scrapes and centralizes admission information for Ontario Universities
- Developed for the purposes of learning Node.js and informing peers
- Created using Node.js, EJS and Promise

Turtle Pong · Nov. 2016

- Fully functional pong game built using a very basic drawing library
- Developed to test how far Python's Turtle library could be pushed
- Created using Python and Turtle

Relevant Experience

Radio Dil Apna Punjabi · Systems Administrator and Technical Backbone · Sept. 2015 - Present

- Setup and managed VPS servers using Debian Linux; reduced monthly server costs by 60%
- Migrated software to open source alternatives following extensive research and analysis; reduced licensing costs by 90%
- Regularly maintained and updated software using SSH and FTP to ensure stability and security

Viking Hacks · Lead Organizer · May 2019

- Organized a Hackathon for students with little technical experience and gave them an introduction to logic and programming
- Worked with a team of 6 senior students and staff to ensure the Hackathon would run smoothly

StarterHacks · Mentor and Judge · Jan. 2020

- Guided a group of inexperienced programmers in creating a facial recognition app using Python and OpenCV
- Mentored groups with unfamiliar programming languages and environments

Computer Science Club · President · Sept. 2017 - June 2019

- Hosted weekly club meetings to prepare students for programming competitions and to work on club projects
- Divided roles and responsibilities among executive members; had more than 60 members

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Additional Projects/Experience

Dragons Nest Finale Runner-ups   May 2019
- Keystone Tutoring app was presented to a panel of high-level business executives
- Won 2nd place for our outstanding pitch and demo

FishFinder   Feb. 2018
- Machine learning app that classifies types of Fish
- Created using Tensorflow and Google Cloud APIs
- Created during Hack the Hammer 2018

Canadian Computing Competition (x4)   Feb. 2016 - Feb. 2019
University of Waterloo
- Five computing challenges to complete over 3 hours
- Python was the primary programming language

ECOO Programming Contest (x4)   Mar. 2015 - Mar. 2019
Peel District School Board
- Four team-based computing challenges to complete
- Python was the primary programming language

Awards

North Park Secondary School · Engineering and Applied Sciences Award   June 2019
- Awarded for my excellence in the field of Engineering and Applied Sciences

ECOO-CS · 3rd Place Regional Champion   Mar. 2019
- Demonstrated leadership, coordination and time-management skills in this team-based programming competition
- Ranked third place in the Peel District School Board
- First team from North Park S.S. to rank in the top 10

University of Waterloo · Waterloo Math School Champion (x4)
- Ranked first place in my school for Waterloo's math contests

University of Waterloo · Waterloo Awards of Distinction (x4)
- Ranked among the top 20% in Canada for Waterloo's math contests

Education

University of Waterloo   Sept. 2019 - Present
BCS Computer Science 2024

North Park Secondary School   Sept. 2015 - June 2019
International Business and Technology Program