SRIHARI VISHNU

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PROFESSIONAL SUMMARY

First year Software Engineering (BSE) Student at the University of Waterloo, with internship experience at Open Learning Exchange in Systems Design and Android Development. Has worked with IoT devices, ML (Tensorflow), Firebase and well-versed in languages such as Kotlin, C++ and Python.

WORK HISTORY

Oct 2019 - Oct 2020
Waterloo, ON

Part-Time Software/Systems Developer Intern
Open Learning Exchange www.ole.org – Treehouses Team
- Developed Android app for connecting to a Raspberry Pi over Bluetooth (https://github.com/treehouses/remote)
- Implemented a functional SSH + terminal within the app
- Conducted code reviews of coworkers and collaborated remotely with peers around the world.
- Worked in areas including DevOps (Travis CI), Python server script, and improved Bluetooth and App Efficiency. Fixed 50+ bugs.

TECHNICAL SKILLS + TECHNOLOGIES

- Android Dev (Kotlin & Java)
- C++
- Firebase
- Raspberry Pi
- Linux (Basic Proficiency)
- HTML & CSS
- JavaScript
- Python
- Arduino
- Unity

PROJECTS

ML Flappy Bird + Piano Tiles Player (Python, Tensorflow, Reinforcement Learning, Arduino)
Sep 2020 - Dec 2020 - https://github.com/sriharivishnu/FlappyBird-RL
- Used Machine Learning (Reinforcement Learning) and Genetic Algorithms to train an agent to play the mobile game, Flappy Bird.
- Used an Arduino with servo motors to create a Physical Piano Tiles Player (Mobile Game)

GameFace - Video Chat App (WebRTC, Node JS, Firebase, Android Studio, MVVM Pattern, CircleCI)
Apr 2020 - Aug 2020 - https://github.com/GameFaceChat
- Created an Android Group Video-Calling application, with Node JS, Google Cloud Functions and Firebase as the backend. Implemented MVVM Design Pattern and CircleCI.

ML Covid-19 X-Ray Classifier (Python, Tensorflow, Keras)
Aug 2020 - https://github.com/sriharivishnu/COVID-19-Detection
- Used a Convolutional Neural Network to detect Covid-19 in Medical Imaging. (93% accuracy)

Nova Programming Language (C++, Makefile, GNU Tools)
Jul 2020 - Oct 2020 - https://github.com/sriharivishnu/Nova
- A programming language written in C++, with functional recursion, variables and lists.

HacktheNorth 2019 Submission – EasyLang (Java, ML, Android)
Sep 2019 - https://github.com/sriharivishnu/EasyLang
- Developed a real-time image classifier on Android that translates the name of an object to a given language and displays the result as a 3D label in Augmented Reality.

ACCOMPLISHMENTS

- Top 5% of participants in Canadian Computing Programming contest (Honour Roll)
- Provincial Champion and International Qualifier for DECA business competition in Nashville
- Schwann's USA Cup Semi-Finalist (Soccer)
- SHAD Alumni (https://www.shad.ca/)
- 2020 High School Class Valedictorian (A.L. Folliot Award)

EDUCATION

Expected in Feb 2025
Waterloo, ON

Bachelor of Engineering in Software Engineering
University of Waterloo
Relevant Courses:
- CS 137: Programming Principles (100%)
- SE 101: Software Engineering (100%)
- Math 115: Linear Algebra (96%)
- Math 117: Calculus for Engineers (99%)

Jun 2020
Waterloo, ON

High School Diploma
Waterloo Collegiate Institute
- Graduated with 98.5% average, with three AP courses
- President of DECA business club (90+ members)

HOBBIES

- Skiing & Kayaking
- Soccer Player (Played 5+ years for Waterloo)