Jayant Bhardwaj

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Skills

Programming Languages C, C++, Java, Python, JavaScript, HTML, CSS, Verilog, Assembly: x86-64, ARM

Frameworks and Tools PyTorch, OpenCV, Android Studio, JSON, REST, Numpy, Pandas, Flask, Kivy, Git, MATLAB, Google Colab, IntelliJ, Raspberry Pi, Linux/UNIX

Education

University of British Columbia 2018 – 2023
Bachelor of Applied Science, Computer Engineering, 3rd Year *Vancouver, BC*

Experience

Astin Analytics Aug 2020 – Mar 2021
Software Engineer Intern *Vancouver, BC (Remote)*

- Implemented a solution for mass thermal scanning and attendance with a team of developers
- Learnt and worked with the OpenCV, Numpy, Flask and Pandas frameworks
- Developed a web application using Python that displayed the camera feed and attendance
- Developed and maintained automated tests for unit testing using PyUnit

C.O.D.E Hack Hackathon Jul 2020 – Aug 2020
Senior Technical Advisor *Remote Work*

- Established a streamlined system for automating tests and expedite evaluation of the code submitted
- Trained staff to use Git in order to effectively assist participants during the event

UBC Advanced Research Computing (ARC) Summer 2019
Teaching Assistant *Vancouver, BC*

- Learned about the applications of High Performance Computing (HPC) and Digital Research Infrastructure
- Provided assistance to the researchers with command line and Python in order to access the HPC resources

Smarter.Codes Nov 2017 – Dec 2017
Android Developer Intern *Bangalore, India*

- Implemented a chat-bot using REST APIs and JSON
- Parsed the outputs and presented it the form of text and speech using the Android TTS library
- Unit-tested the code for robustness, including edge cases, usability, and general reliability

Projects

Classification using Machine Learning (Personal Project)
Tools: Machine Learning, PyTorch, Sentiment Analysis, Pandas, NLP, Google Colab, Transfer Learning

- Classification of tweets using Sentiment Analysis: Classified airline-related tweets from a US Airline Sentiment dataset using gradient descent and embedding-bag text classifier
- Image classification using Transfer Learning: Used transfer learning on ResNet-18 to classify the Bulldog and Glock 17, trained the network using SGD that produced percent accuracy in the high 90s

Debugger for y86-64
Tools: C, Ubuntu, y86-64

- Implemented a GDB-like debugger for y86-64 written in C and y86-64, similar to what GDB does for programs written in C. It supports commands like 'quit', 'step', 'run', 'next', 'jump X', 'Registers', 'Break X' etc.

Mediator Service and Server for Wikipedia
Tools: Java, FSFT Buffer, ANTLR, JSON, JWiki API, IntelliJ

- Implemented a server application that wraps the mediator service capable of processing multiple client requests simultaneously, using JSON to exchange information and ANTLR to parse requests