Pavneet Gill

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Highlights

- Highly analytical, with sound judgment, and the capacity to enact rational and timely decision-making, problem-solving, and prioritization
- Adeptly balance competing and shifting priorities while maintaining a confident, performance-focused demeanor; a critical thinker with abilities in reading, analyzing and interpreting data for reporting
- Ability to swiftly build and foster professional relationships with peers, management, and clients; invoking tact, professionalism, and confidence in all written and verbal communication.

Education

- **McMaster University** *Hamilton, ON*
  Bachelor of Computer Engineering; GPA: 3.3/4 *Sept 2017 - April 2021*
- Relevant Courses: Digital Systems Design, Software Development, Data Structures and Algorithms

Professional Experience

- **McMaster University** *Hamilton, ON*
  Research Assistant *May 2019 - Aug 2019*
  - Utilizing machine learning libraries in the preparation of labeled data for training, including TensorFlow and MXNET
  - Accountable for the transformation of data from XML to CSV, JSON, and additional file formats for use in a custom labelling tool
  - Conduct thorough research on previous machine learning algorithms to improve the detection of vehicles in varying weather conditions.
  - Develop and launch tools including Notes Application, Tree Management Application, and a Graphics Library for a Machine Learning Labelling Tool.
- **Pizza Pizza** *Mississauga, ON*
  Manager *May 2018- Aug 2018*
  - Optimized profits by controlling food, beverage and labour costs; documented daily employee hours, balance sheets, and commissary orders accordingly
  - Developed a comprehensive program which reduced error and unnecessary waste by automatically calculating commissary orders based on remaining stock.
  - Designed an excel worksheet to assist in calculating pay for workers, sorting payments for employees by hours/days worked in a week.

Extra-Curriculars

- **Arvi** *Hamilton, ON*
  Software Developer *Jan 2019 - Present*
  - Strategically designing an autonomous vehicle to transport physically limited individuals across campus in collaboration with a team of peers.
  - Successfully deploying Robot Operation Systems (ROS) to communicate with Arduino and external hardware from a cloud-based platform.
  - Contribute to weekly project meetings, ensuring the development of the vehicle follows all pre-set plans and proactively addressing issues.

Projects

- **Pokemon Identifier**: Machine Learning Application used to identify pokemon type based on attributes (Aug '19)
- **Drawing Tool**: A simple free-hand sketch tool allowing for annotations and mark-up of pictures using OpenGl (Aug '19)
- **Angle Sensor**: Programmed HCS12U micro-controller in C to measure inclination in real-time using Matlab (April '19)
- **Educational Quiz Game**: Collaborated with a team of four and developed an object-oriented quiz maker with sorting algorithms which served to allow teachers to test course knowledge. (June '17)
- **Line Follower Robot**: Line Follower Robot: Succeeded in the development of a robot with autonomous navigation, control, and manipulation using Arduino. (June '17)

Technical Skills

- **IDE**: Visual Studio, Netbeans, Eclipse, CodeBlocks
- **Frameworks and Libraries**: wxWidgets, OpenGL, TensorFlow, MXNET, numpy, boost, glut
- **Languages**: Assembly, VHDL, Python, PHP , Java , C, C++
- **Other Technologies**: Git, AutoCAD, Inventor, Microsoft Office, XML, Matlab, Altera Quartus, PSPICE