Suhird Singh

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SKILLS SUMMARY

- 4 years of industrial experience in Software Development
- 5 years of coding experience in Python
- Practical knowledge of Neural Network (Deep Learning) models and Machine learning Algorithms
- Experience with Tensorflow for making Neural network models
- 2 years as Web Developer (Django, React etc)
- Quick learner along with problem solving skills using computer algorithms
- Good spoken-language skills and team communication developed through project and volunteer experiences

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, Javascript
- **Web MVC Frameworks:** Django, Flask
- **Frontend Framework:** React
- **Machine Learning Libraries:** sklearn, Tensorflow, Keras
- **Artificial Intelligence algorithms:** Regression, SVM, K Nearest Neighbor
- **Deep Learning Algorithms:** Basic CNN, Basic RNN
- **Database Systems:** MySQL, OracleSQL, SQLite

EDUCATION

Master of Applied Computing   **Sep 2018 – May 2020**
University of Windsor, Windsor, Ontario
- Coursework complete August 2019. Relevant courses include Statistical Learning, Deep learning and Advanced Algorithms.

Bachelor of Technology, Computer Science   **Sep 2009 - May 2013**
University College of Engineering, Punjabi University, India
- Relevant courses: Data structures, Operating System, Database, Advance JAVA, Internetworking

WORK EXPERIENCE

Web Developer   **Sep 2019 - Apr 2020**
Royal Bank of Canada, Toronto, Canada
Technologies: Python, Django, Material Design-UI
- Developed 2 internal web applications for internal enterprise tasks
- Designed new and intuitive UI from scratch
- Hosted both applications on IIS with MSSQL database
- These applications saved RBC around $30K on licensing and training of propriety applications

Senior Systems Developer   **May 2015 - Mar 2016**
Infosys Pvt Ltd, Chandigarh, India
Technologies: Python, Django, JAVA(Struts), Javascript
- Designed a new functionality for Adidas featuring customization of products along with 3D view.
- Developed web services for the frontend using Java
- Researched and implemented new and fast data structures for manipulating huge data
- Debugged and managed the code of pre-designed functionalities

ACADEMIC PROJECTS

Airbus Ship Detection Algorithm   **Mar 2019 - Apr 2019**
University of Windsor, Windsor, Ontario
Technologies: Python, UNet, Keras, Google Colab Notebook
- Developed a neural network for processing masked images of ships in satellite imagery provided by Airbus
- Implemented U-Net model in Keras

RSNA Pneumonia Detection Algorithm (Team Project)   **Sep 2018 - Dec 2018**
University of Windsor, Windsor, Ontario
Technologies: Python, MaskRCNN, Keras, Google Colab Notebook
- Researched and developed a neural network model for detecting pneumonia in X-RAY images provided by RSNA using Mask RCNN for image detection and segmentation
- Contributed to research report for the same model and submitted it to Dr. Robin Grass

getXpert Web Application (Team Project)   **Sep 2018 - Dec 2018**
University of Windsor, Windsor, Ontario
Technologies: Python, Django
- Designed a small social networking web application to connect different people with different expertise
- Created and programmed most of the backend functionalities in Django and Python

Intelligent Log Based Intrusion Detection System (Team Project)   **Feb 2013 - Sep 2013**
Punjabi University and Infosys, India
Technologies: Python, JAVA, Linux, Cloud Computing (Xenserver)
- Coded a Log Based Intrusion Detection System for Linux/Unix based virtual machines on cloud
- Used Support vector machine(SVM) as the main machine learning algorithm to learn daily logs

PERSONAL PROJECTS

Desktop Automation Library   **Jan 2019 - Feb 2019**
Techologies: Python, OpenCV
- Completed Desktop automation library using image detection with OpenCV

Automation using Speech to Text Processing   **Sep 2016 - Nov 2016**
Technologies: Java, OpenSphinx
- Automated gaming tasks using Voice commands

CERTIFICATIONS

- **C|EH (Certified Ethical Hacker)**   **Jul 2012**