**Vyas R Cholayil**

US Permanent Resident

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**Career Objective**

To pursue a challenging career and to be part of a progressive technology firm, that gives scope to enhance my knowledge and skills, and to reach the pinnacle in the computing field with sheer determination, dedication and hard work.

**Experience**

Feb – Aug 2019 **DataWeave Software Pvt. Ltd** Bangalore, India

***Python Developer***

***Platforms :- Ubuntu, Git, Bitbucket, PyCharm***

* Developed Python scripts in PyCharm to fetch the data from the websites where direct extraction is not possible.
* Developed Python scripts resulting in the extraction of a greater number of data points from sources.
* Deployed scripts in vim editor to increase the efficiency of product matching across various competitors.
* Used Regex, Xpath and Jpath to crawl a large amount of data from websites and mobile apps.
* Made use of Git version-control system for tracking changes in source code during software development and stored in Bitbucket repository.
* Developed Python shell scripts to generate reports for extracted data, to include ranking of available products.
* Developed Python scripts to match same products across different pin codes of various competitors.
* Performed several bug fixes to extract banners and color/size variants of products from apps and websites.
* Implemented several Python code extensions to extract additional information about various products.
* Scheduled crawling of websites, generated reports on extracted data and delivered weekly reports of various projects to clients.

**Education**

2014 - 2018 **Kerala University, TKM College of Engineering** Kerala, India

***Bachelor of Technology in Computer Science and Engineering***

**CGPA : 7.36/10**

**Projects**

Jan – Apr 2018 **New-Born Baby Face Recognition** Kerala, India

* Trained a Siamese neural network in Keras API with Tensorflow backend to employ a unique structure to naturally rank similarity between inputs.
* Implemented a convolutional architecture and combined it with One-Shot Learning to achieve strong results of biometric recognition of new-born babies using Python Language.
* Made use of Image Data Augmentation to artificially expand the size of a training dataset by creating modified versions of images in the dataset.
* Used Stochastic Gradient descent with a decaying learning rate to optimize the neural networks.
* Tested the network with a single example of each possible class before making a prediction about a test instance and got an accuracy of 76%.

Apr - May 2019 **Expense Tracker Android App In LAMP Environment** Bangalore, India

* Developed an android application to keep track of our expenses using Java language in Linux environment.
* Implemented login user authentication using MySQL relational database management system.
* Made use of Apache web local server to ensure the communication between web applications and database management systems.
* Used PHP programming language to store and validate the login credentials to and from the database.

Jan – Mar 2017 **Expense Tracker Android App** Bangalore, India

* Developed an android application to keep track of our expenses using Java language.
* Implemented user authentication using Shared Preferences and stored in the device itself.
* SQLite was used for the database access.
* Implemented modules to add, delete and update records and a module to calculate total expenses in each month.
* Successfully published the android app in the Google Play store.

**Skills**

* **Languages -** C, Java, Python, C++, SQL, UNIX Shell Scripting
* **Databases -** MySQL, SQLite, JSON, SOLR, PostgreSQL
* **Machine Learning Libraries -** OpenCV, Numpy, Keras, TensorFlow, Scikit- learn, Scipy, Matplotlib, Pandas
* **Technologies -** Android Development, Apache Web Server, Adobe After Effects, Autodesk Maya, Unity 3D
* **Others -** Git, BitBucket, Github, PyCharm, SublimeText, Netbeans, Eclipse, Vim Editor, XAMPP

**Certifications**

* Convolutional Neural Networks (Coursera). June 2019
* Neural Networks and Deep Learning (Coursera). June 2019
* Python3 (Udemy). July 2018
* Unity 3D (Udemy). April – May 2018
* Autodesk Maya (Udemy). July – Aug 2017
* Adobe After Effects (Udemy). May 2017

**­Achievements And Interests**

* Student Volunteer for Video Game Competitions during College Fest. Aug 2015
* Actively participated in workshops (Deep Learning, VFX) and competitions (IoT Challenge, C-debugging).