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PYTHON DEVELOPER

**Professional Summary**

* 3+ Years of experience in Analysis, Design, Development, Management and Implementation of various stand-alone, client-server enterprise applications using Python and C/C++
* Experienced with full software development life cycle (SDLC), object oriented programming, database design and agile methodology
* Experience with object oriented programming (OOPS) concepts using Python and C++
* Experience with machine learning using Python, C++
* Experience with transfer learning techniques in machine learning
* Experience with mathematical computing softwares Matlab and Octave
* Trained the models using TensorFlow, Alexnet, CNN and VGG16
* Experience with software solutions for tracking, detection and modeling
* Experience with classification models
* Experience with pre-processing data
* Experience with developing prediction framework
* Experience with OpenCV using python and C++
* Experience with real-time video identification
* Experience with both GPU and CPU programming
* Experience with Matlab environment
* Worked on various applications using python integrated IDEs like Eclipse, Sublime Text, PyCharm.
* Experience with selenium automated web browser.
* Experience with version control systems like Git.
* Experience with implanting convolutional neural networks
* Excellent working knowledge in Unix and Linux shell environments using command line utilities
* Experience in Python's modules Numpy for generating complex graphical data, creation of histograms
* Strong knowledge of multi-threading and batch processing.
* Background knowledge of histogram equalization
* Experience with applied image Morphological operations like Dilation and Erosion
* Highly experienced in playing with contours in OpenCV
* Experience with beautifulsoup
* Good amount of experience in handling errors/exceptions and debugging issues in large scale applications.
* Worked in the team and faced challenges during the project development and production process.
* Dedicated to tasks and provide good results and a good team player with strong communication skills.
* Willingness to work in a highly dynamic environment and ready to take up challenges.
* Ready to learn new tools

Technical Skills:

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| --- | --- |
| Languages | Python, C and C++ |
| Simulation softwares | Simulink, Matlab, CPN tools, Vensim |
| Frameworks | Django, Flask |
| Protocols | TCP/IP, HTTP/HTTPS, SOAP |
| Version Control Tools | Subversion and GIT,bitbucket |
| Scrum Methodologies | Waterfall and Agile |
| Operating Systems | Windows95/98/NT/2000/XP/7/8/10, Unix, Linux (Ubuntu) |
| Deployment Tools | Jenkins |
| IDE Tools | PyCharm, Eclipse, PyStudio |
| Bug Reporting Tools | JIRA |
| MS Office Tools | MS Word, MS PowerPoint, MS Excel |
| Mathematical computing softwares | Matlab and Octave |
| Python Modules | OpenCV, Beautifulsoup, Numpy, Pandas, Selenium, Geopy, Pygame |
| CAD | Autocad, Tinkercad, Blender |

**Client: PLLC Software Solutions, Rajahmundry , AP, INDIA August 2013- May 2015**

**Role : Python developer & System Engineer**

**Responsibilities:**

* Hands- on experience in developing applications using Python and C++ on Linux and Unix platform
* Designed models for achieving specific imaging goals
* Pre-processing images
* Worked on GPU programming
* Implemented and modified deep learning models
* Developed the prediction system framework
* Trained the models using TensorFlow, Alexnet and CNN
* Developed a fully automated continuous integration system using Git, Jenkins and custom tools developed in Python and Bash.
* Experience with working on **Linux server**
* **Knowledge of linear regression models**
* **Building classification models**
* **Implemented a convolutions neural network at Matlab**
* **Developed method for dashboard developers to deploy code into production VM.**
* **Developed method to view error logs debug from the browser.**
* **Integrated Jenkins into the workflow.**
* **Developed management Dashboard.**

Environment: Python, Linux, Unix, Git, BitBucket, Jenkins, Tensorflow, Alexnet, CNN and GPU,JIRA

**Client: Auxo Labs, Chennai , AP, INDIA Dec 2015- May 2016**

**Role : Computer Vision Engineer**

**Responsibilities:**

* Hands- on experience in developing applications using Python and C++ on Linux and Unix platform
* Knowledge of machine learning
* Participate in cutting edge research in computer vision
* Protype hardware and software solutions for tracking, detection and modeling
* Applying machine learning to computer vision problems
* Research and prototype techniques and algorithms for object detection and recognition
* Background in computer vision
* Working knowledge of software development methodologies such as waterfall and agile
* Designed models for achieving specific imaging goals
* Worked on GPU programming
* Engineering high performance computer vision systems
* Ensure quality of software developed meets or exceeds expectations
* Developed MATLAB environment in a multi-scale environment
* Normalized the image intensity by histogram equalization to increase image contrast
* Applied image Morphological operations like Dilation and Erosion
* Implement different CNN architectures like sequence of Convolutions, Pooling, Activation functions to improve the accuracy
* Applied image enhancement operations like contrast, color-balance and sharpening to get the meaningful data from the image
* Experience with working on ubuntu

Environment: Python, Ubuntu, Git, OpenCV, Matlab, CNN, waterfall, agile, Tensorflow, Alexnet, CNN and GPU, JIRA

**Project: Emotion Identification by Face Expression June 2018**

* Used Python, to recognize four different expression – neutral, happy, sad and surprise.
* I have worked in OpenCV enviroment
* I have retrained a convolution neural network -VGG16 (deep learning)
* I have used transfer learning technique in python.
* I have used real time video for identification.
* I have written a code to resize all the images.
* I used OpenCV module in python.
* I used Numpy for performance calculations

Environment: Python, deep learning, VGG-16, Numpy, OpenCV.

**Project: Best Path Selector May 2018**

* It selects shortest path during navigation among google maps and open street maps.
* I have written a code in python in such a way that it collects the data from the google maps and open street maps.
* I have used geopy to get the latitude and longitude of the given address.
* I have used beautifulsoup for the data from the google maps and open street maps.
* I have also used selenium to automate the web browser interaction from python.

Environment: Python, beautifulsoup, selenium, geopy

**Project: Hand Gestures Recognition May 2018**

* It recognizes the hand gestures given by a person.
* I have worked in OpenCV environment
* I have developed a code in a way that depending upon angle of hulls and area of contours it recognizes the hand gestures.
* I have used skin-color filtering and edge detection.
* I have used opencv2 to take data from the real-time.
* I have applied image Morphological operations like Dilation and Erosion
* I have normalized the image intensity by histogram equalization to increase image contrast.
* I have used gaussianblur to increase the accuracy
* I have used pygame to make interfacing of app better.
* I have used Numpy and math to perform calculations

Environment: Python, OpenCV, pygame, Numpy, vectors, real-time video, CPU programming