

Python Developer Python Developer Python Developer Work Experience Python Developer Ekuber - McLean, VA March 2018 to July 2018 Production support for Ckan Datacenter, Python, Solr, Jetty, Vagrant, Ubuntu, Postgresql Deployed application with Docker, did Python coding and debugging, had meetings with client, tested application using Jenkins, all work was on VirtualBox Vagrant, AWS Data Engineer CFPB.gov November 2016 to October 2017 Farragut DC Vagrant, Linux, Mesos, Marathon, Ckan, Postgres, Solr, Ansible, github. Open source web development Ckan on Pylons framework, doing user interface on ninja2, database part on SQLAlchemy Controller, templates files on Python on Linux Centos Vagrant Virtual Box, ELASTIC SEARCH, ELK. Deployment Ckan web app on Network by Jenkins running and testing. Deployment uses Mesos with scheduling by Marathon, software download and installation is done by Ansible. Changing on need basis yaml files which are ran by Ansible and Mesos. Data migration to Postgres SQL by good pipeline Python Developer PKW/ LEIDOS / SSA - Falls Church, VA June 2015 to October 2016 Scan denied disability applications judge's decision by OCR using Python and analysing scanned data with use of Natural Processing package, NLTK. Python automatic data extraction from SSA disability files and save them in SQL database Word document is converted to XML file then to CSV file and saved in SQLite database. Optical scanning of older TIFF images of mental and physical disability cases using Python code together with NIH team. SAS with Python was used for statistical purposes, created unit test plans, and did code optimization. Java Developer IBM - Reston, VA May 2015 to June 2015 Support legacy Java Oracle code for FEMA emergency applications Python Developer Foreign Language Institute UM - College Park, MD August 2014 to December 2014 Educational software Used Python on Linux to develop monitoring scripts of Apache, MySQL servers, and Nagios to detect network intrusion Used Angular, Flask, Django frameworks, JavaScript for web development Used Bitbucket, Git, for source files storage Used SQLite to keep result of servers log and error files Citrix was used for remote access of Virtual Machines VM, Vagrant on Ubuntu Linux Used FTP for remote file transfer from Python script Software Developer AmTote - Hunt Valley, MD June 2013 to June 2014 Computer Support of Racing for Maryland, New York Racing Association. Windows 7, VC++, MS SQL reports. I used Microsoft Visual Studio 2013

for 1) Bug fixing, 2) System enhancements, additions. 3) Developed Foreign Para Mutual Betting System, Python was used for automated testing of several real racing events, Triple Crown 2014, Preakness 2013. Python Developer Blue Cross - Owings Mills, MD December 2012 to March 2013

Medical insurance industry Python was used to develop Linux script on Virtual Machine Ubuntu which did: 1) CGI script runs on Apache server, 2) pulls data from Postgres SQL, 3) present data in web browser as HTML 4) present data in XML file in RSS Feed 5) updated results are send automatically to Managers Outlook Mail Box. 6) Pulled financial data from web by PERL/ PYTHON script using XML TREE, DOM 7) Used Django framework 8) used OCR tools with 508 compliance for development and testing 9) SANS cyber security classes Senior Production Analyst NOAA - Camp Springs, MD May 2011 to October 2012 I run Weather Forecasting Models on IBM supercomputer. 1) Deployed new models for automatic run on Unix machine by LoadLeveler 2) Monitored them by SMS Linux box. 3) Tested existed models for additional changes and enhancements, for example (SREF, WRF, GFS, WAVEWATCH). 4) I responded to night calls for troubleshooting of model crashes and delays. This include monitor of data ingest from satellites or data input from other models. I have knowledge of GRIB, GRIB2. I supported AWIPS. 5) I used PERL script 24x7 automatically collected errors from all sources and make log file. C/FORTRAN were used for support and development of weather forecasting models. C/C++, FORTRAN/PERL/ Python/shell script. Linux, Unix AIX, HPC, Open MP/MPI 6) I used GPFS and Open MP which is DISTRIBUTED SYSTEM 7) used OCR tools with 508 compliance for development and testing

SCIENTIFIC PROGRAMMER (contractor) Fugro Earth Data - Frederick, MD June 2010 to December 2010 Production of surface maps from 2 air born Synthetic Aperture Radars (Interefometry) data in X and P bands. SAR / IFSAR data processing SGI 3900 POSIX, Altix 4700, Irix, Linux, FORTRAN / C, parallel programming Open MP/MPI, Jurassic Prok (JP), Porting of JP from SGI Irix to Altix Linux box. Performance improvements by re- engineering of source code with possibility to reprocess data faster. Improvements in performance of making shape files on C/C++, breaking JP in part to dump results on disk on 1 run and pickup data at 2 run for smaller needed map area, what allows redo it much faster. PERL code run data comparison produced by different

methods. SOFTWARE ENGINEER NASA - Greenbelt, MD February 2009 to October 2009 Astrophysics Department

- 1) Support SWIFT mission PERL based pipeline which provide telescope/satellite data on the web for scientific community all over the world within 2 hour of any new Gamma Ray Burst.
- 2) Main PERL script used modules which were developed on FORTRAN., C++ FORTRAN, MATLAB, PERL, C, C++, I used Linux cluster as Distributed System
- 3) used OCR tools with 508 compliance for development and testing

SOFTWARE ENGINEER ARINC - Annapolis, MD September 2008 to November 2008 contract)

Unix, Linux,

- 1) Python 2.1 script was used for Web application Web Browser Automated Testing with SELENIUM server, Subversion, MQ series, VMWare, PL/SQL.
- 2) Analysis of Tower-Aircraft message patterns, service different air companies across the world

APPLICATION DEVELOPER BAE Systems - Fairfax, VA January 2007 to June 2008

- 1) Sun Unix, C, Oracle 10g, Tuxedo, shell, support for e-tax forms for IBM-IRS
- 2) Added several functional abilities to process junk data, zip files, check for viruses

SOFTWARE ENGINEER (grant) SENIOR PROGRAMMER (contract) Think Adaptive - Fairfax, VA October 2006 to October 2007 Fairfax, VA

I used FORTRAN for numerical modelling of fluid flow in confined spaces of irregular shape. Linux, Motif, C, XWindows, XLib, support graphical application for DARPA grant X, Y 3D image analysis of fluid flow in confined spaces with complex boundary.

SENIOR PROGRAMMER (contract) Accenture - Reston, VA July 2005 to January 2006 USPS, Washington DC.

- 1) I developed Java Core batch job which ran every week Oracle query and produced file containing data about payments to different air carriers for SASS Domestic project.
- 2) I did design, development, testing and debugging. Java Core, XML, Oracle SQL, PL/SQL, Tomcat, Eclipse.

COMPUTER SUPPORT - Baltimore, MD July 2004 to September 2004 Laser image restoration in atmosphere at some distance from laser using different atmospheric models (with US Army Research Lab). Laser beam scattering was modelled by FORTRAN. Visualization was done on Borland C++, LINUX runtime animation on Motif on XWindows. Presentation of laser diffraction as plain 3D image and its analysis, Motif, XWindows.

SOFTWARE ENGINEER Honeywell - Columbia, MD February 2001 to April 2003 Worked on Big Dig Project for Massachusetts Highway Administration. Developed parts of Local Field Controller software using C++ on EMBEDDED

MICROPROCESSOR DESIGN LFC2070 OS9 Microware operation system, NTCIP protocol, Borland C++, Doors, UML, code optimization for embedded processors SENIOR PROGRAMMER ANALYST Magellan Health System - Columbia, MD May 1998 to February 2001 Developed Tax Identification Number sub-project of Master Provider Database project; this software is used to keep track of billing records for patients, doctors, hospitals and medical insurance for IRS, VISUAL C++, VB, PL/SQL, MFC, MS SQL Server RESEARCH ASSOCIATE Johns Hopkins University - Baltimore, MD May 1996 to May 1998 Research in Ocean Wave Forecasting Modeling Nonlinear Wave-Wave Interactions, FORTRAN/C/UNIX/VMS RESEARCH ASSOCIATE Applied Physics Institute, Western Kentucky University September 1995 to May 1996 KY Developed PC monitoring of the Neutron Generator with the help of LabVIEW SENIOR SCIENTIST Marine Hydrophysical Institute - Sevastopol, UA January 1981 to March 1995 Sevastopol, Ukraine Numerical Wave Forecast Modeling, UNIX, FORTRAN, C Comparison of wave models with buoy and REMOTE SENSING wave data. Nonlinear Wave-Wave Interactions between quintet of waves, PC, MATLAB Education Ph.D. in Physical Oceanography Marine Hydrophysical Institute - Sevastopol, UA B.S. in M.S. Physics Moscow State University - Moscow, RU

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