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Programming



OS Preference

GNU/Linux ★★★★★
Unix ★★★★★
MacOS ★★★★★
Windows ★★★★★

Personal Skills



Experience

- 01/12 - Now **Freelance Developer & Consultant** [Elance-Upwork/TCC GNDEC Ludhiana](#)
GNU/Linux software, LTSP Cluster implementation at PCTE(College for Technical Education) Baddowal, Ludhiana. Development of Flask-based Gmail Analyser show reports regarding Email Activity of company Employees, Rocks cluster([www.rockscluster.org](#)) implementation and workshop at GNDEC Ludhiana, Development of advance volume filter using Paraview([www.paraview.org](#)) and Python.
- 05/16 - 10/16 **Full-Stack Python Developer** [Revinfotech Ludhiana](#)
Design and development of Software Projects, Amazon and Google Cloud Management, LTSP implementation. Automation of various internal Tasks using Python, Project Management, Job hunting on Upwork.
- 01/13 - Now **Administration and Management** [S.D. Sen. Sec. School, Barnala](#)
Transport and Quality management, Conduct various workshops to initiate programming and use of open source technologies, alongwith contributed to Open-source projects. TuxMath, TuxPaint translation into Punjabi and Hindi languages, Developed SDPS website, OpenStreet([www.osm.org](#)) mapping done for 15 villages around SDPS, Implementation of LTSP(Linux terminal server project) for computer-lab, Implemented Fedena([www.projectfedena.org](#)) for School Management and ongoing development of Smart-Class project using Raspberry-pie and Moodle.
- 01/14 - 02/15 **Linux Trainer and Web Developer** [FutureTech IT centre Ludhiana](#)
Teaching Linux Desktop and Server Administration skills to students. Developed various projects using technologies HTML, CSS, JavaScript, Python, C and shell Script. Computer technical support. Problem solving related to hardware, software and Operating Systems. Management of the internal Structure.
- 01/13 - 06/13 **Intern-ship** [SysInfocom, Chandigarh](#)
Training for Linux Desktop and Server Administration, management and migration of servers. Development of "Python Battery Saver pack"(Python Based). Learning and using Latex for creating reports and documents.
- 06/11 - 07/11 **Intern-ship** [TCC GNDEC Ludhiana](#)
Training for Python. Worked on college souvenir(Django Based Project). SageMath Deployment on Server and introduced SageMath and it's features to Research Students. Open Source Technologies.

Education

- 2009 - 2013 **Bachelor's Degree in Information Technology** [GNDCE Ludhiana, Punjab, India](#)
Main subjects: Mathematics and Physics, C, C++, Java, Python, JavaScript, Network Operating Systems, Web Technologies, Database Administration, Software Development.
*Major Project: "Automation for Testing and consultancy cell" (Django Based).
Project development carried out during intern-ship period at Sysinfocom Chandigarh*
- 2007 - 2009 **Senior Secondary School** [DC Model, Ferozepur](#)
Main subjects: Mathematics, Physics, Chemistry.

Certifications

- 12/2016 **Python for DataScience and Machine Learning** [Udemy. E-learning](#)
Prediction of Stock Prices using Linear Regression

Languages

English ★★★★★
Hindi ★★★★★
Punjabi ★★★★★

Projects

- | | | |
|---------|--|--------------------------------------|
| 03/2017 | Stock prediction using Random Forest
<i>www.quantopian.com is used as platform to deploy,benchmark and evaluate performace of the Algorithm for single stock.</i> | Trading-Algorithm |
| 01/2017 | Stock's Analysis using Ensemble Learning
<i>Problem Definition: To Predict if close price of day N will be less or more than Close Price of Day N-1. Technologies Used: Python, Pandas, Numpy, Matplotlib, Scikit-learn. Features Used: Adj. Close, Daily Returns,Rolling Mean, Time-lagged series.</i> | Research work |
| 08/2016 | Bitcoin Live Trading using ANN
<i>Bitcoin Live Trading is Web-Based System developed Using Django Framework. It uses Bitfinex Python API to produce Buy and Sell(Bitcoins Trading) calls as decided by Trading Strategy developed using ANN(Artificial Neural Network)</i> | Revinfotech Ludhiana |
| 12/2015 | Gmail Analyser
<i>Gmail Analyser is Flask Based Solution which provides data of All Emails as per the request. Application is integrated with Gmail-Oauth2 login, pygal python library is used to generate graphs based on Data, Whole application is bootstrapped and optimised for mobile devices.</i> | Elance/Upwork |
| 03/2016 | ParaView Advanced Volume Filter
<i>ParaView is an open-source, multi-platform data analysis and visualization application.Advanced Volume Filter is developed using fsolve() function from scipy(Scientific Python) to find out Volume intersection between two or more shapes.</i> | Elance/Upwork |
| 10/2013 | Centre-Table Design using OpenScad Scripting
<i>OpenScad is first C programming based CAD software which is used by various technologies those includes 3D printing and simulation. Centre table is designed using Scripting language of OpenScad</i> | TCC GNDEC |
| 06/2012 | Battery Saver
<i>Battery Saver is responsible for keeping battery power between 40-80 per-centage. A laptop battery could be prolonged by lowering the charge voltage when connected to the AC grid. To make this feature user-friendly, a device should feature a "Long Life" mode that keeps the battery at 4.05V/cell and offers a capacity of about 80 percent. One hour before traveling, the user requests the full Capacity mode to bring the charge to 4.20V/cell.</i> | TCC GNDEC |

Open-Source Contributions

- | | | |
|---------|---|-------------------------|
| 03/2016 | Tuxblocks
<i>Tuxblocks Game is developed to teach Algebra to School students using playful method. Game is developed using Java Based PlayN Game Engine. Hindi+Punjabi Translation of Game, Fixes for font-Class, Implementation of Language translation system, Bug reports.</i> | Github |
| 03/2016 | Open Street Mapping
<i>Completed Digital mapping of 20 villages around my Village Kutba.</i> | osm.org |
| 03/2016 | Browser-Based File-Manager
<i>Flask based file manager, Contribution made to read/access any kind of file(audio/video/images) whatever browser can support.</i> | Github |
| 03/2016 | Text-to-mp3 Android implementation
<i>Contributed to Open-source project Plyer by creating Python wrapper around Java Classes.</i> | Github |

March 11th, 2017

Arshpreet singh Khangura