

Ajay Tanpure

Associate Software Engineer

San Jose, CA - Email me on Indeed: [indeed.com/r/Ajay-Tanpure/683643eaa8351089](https://www.indeed.com/r/Ajay-Tanpure/683643eaa8351089)

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

Associate Software Engineer

Symantec Software - Pune, Maharashtra - October 2014 to August 2016

- o Received WOW recognition for migration of various python tools from MSSQL 2008 to MSSQL 2012 R2
- o Developed a tool for comparing the virtual machine snapshots for getting the files that have been changed after software installation and integrated with existing crawlers in Python.
- o Implemented API in Python which are being used by other teams for querying Clean Data about files. Used Rabbit-MQ for scalability.
- o Implemented proof of concept for searching strings in files using Hadoop and apache pig.

Software Engineer

Great Software Laboratory - Pune, Maharashtra - July 2013 to July 2014

- o Added new search features and maintained existing features in Cisco's Femto cell project.
- o Developed and deployed online helpdesk using Java Rest web-services and hibernate to manage service tickets of IT, housekeeping, finance department and transport departments.

Intern

Great Software Laboratory - Pune, Maharashtra - August 2012 to June 2013

- o Rsync over HTTPS for Linux and Windows with seamless data transfer.

EDUCATION

Master of Science in Software Engineering

San Jose State University - San Jose, CA

May 2018

Bachelors of Engineering in Computer Engineering

Institute of Computer Technology (University of Pune) - Pune, Maharashtra

July 2009 to May 2013

SKILLS

Java (4 years), Python (3 years), Javascript (2 years), C/C++ (1 year), HTML (Less than 1 year), MySQL (3 years), MS SQL (2 years), MongoDB (Less than 1 year)

LINKS

<https://ajayt.github.io/>

<https://www.linkedin.com/in/ajay-tanpure-b0335447/>

AWARDS

WOW - Winning Our Way

May 2016

Received Symantec WOW recognition for migrating all code base from MS SQL Server 2008 to MS SQL Server 2012.

PUBLICATIONS

RSYNC over HTTPS for Linux and Windows with Seamless data transfer

<http://www.ijsrp.org/research-paper-1115/ijsrp-p4786.pdf>

November 2015

Transfer of private, sensitive or confidential data over WAN requires protection against eavesdropping, unauthorized access, use, modification, perusal, disruption assuredly and efficiently. The available open-source utilities like Rsync reduces time and bandwidth required to update the file across the network. It uses the interactive protocols that detects the changes in a file and sends only changed data but it uses weak SSH encryption for secured transfer even over WAN. It is not a secure mode of the data transfer as there are well known attacks like brute-force attack, dictionary attack on SSH. Every Organization requires their data to be transferred securely and they rely heavily on tools which are secure and can be used efficiently without much constraints. As HTTPS is being used heavily and tested thoroughly, it will provide the required high level of security. Another aspect of solution is solving the problem that industry is stuck with these days which is seamless data transfer securely. What we have proposed and implemented is a solution that will transfer data over highly secure HTTPS between linux and windows seamlessly, using the existing delta transfer algorithms for detecting the changes in file. It will not implicate or impose any more requirements/dependencies in comparison with SSH. Our solution will not require any software installed or additional permissions to be enabled for data transfer except the port to be open. Linux host initiating the syncing process will push the binaries on windows host, which will run as a service and can communicate with another processes on the linux host. Moreover, our final tool can be used seamlessly between linux-windows for data backup, recovery, synchronization or plain file copying. We believe our solution is of great importance in the scenarios like OS-images synchronization in cloud infrastructure products, server mirroring in addition to its uses for general purpose file transfer securely.

ADDITIONAL INFORMATION

TECHNICAL SKILLS

- Programming Skills: Java, Python, JavaScript, C++
- Other skills: Algorithms, problem solving, Debugging, MySQL, MS SQL Server, MongoDB, JUnit, PyUnit, Unit Testing, Java Design Patterns, Multithreading, REST web services, Rabbit-MQ, Node.js, Python Flask, PySide, Docker, AWS