Mr Ritesh Talreja
20/101, Tulsidham Amrapali CHS ltd, Thane (West), India – 400610
Contact Numbers: 91-9920075939   **Email ID: riftesht93@gmail.com**

✛ Education

Course	University/Board	Duration	Percentage
Bachelors in Computer Engineering	Mumbai University	2012-2015	75.17%
Diploma in Computer Technology	MSBTE	2009-2012	84.24%
Matriculation	ICSE	2009	91.14%

✛ Work Experience

➢ **Software Engineer at JP Morgan Chase, Mumbai (3 years)**
  Wrote code to automate data flow, regulatory report generation & submission to financial regulators
  - Carried out every phase of SDLC: Requirements gathering via SBE (Specification by Example) > Plan & Design > Development > SIT > UAT > Prod Deployment & Monitoring.
  - Collaborated with global teams of business users, compliance, central bank and regulator representatives from following countries: India (Securities and Exchange Board of India, RBI), Japan (BoJ), Malaysia (Bank Negara Malaysia), Singapore (Monetary Authority of Singapore), USA (SEC), UK (BoE)
  - Code consumed data from various upstream systems across diverse financial products of Capital (Stocks & Bonds) & Commodity Markets, Derivatives Markets, Futures & Forwards, Forex, Swaps
  - Made regular enhancements in existing frameworks to support new functionality
  - Was actively involved and contributed significantly in tech forums (especially blockchain)
  - Force for Good: Pratham is an NGO that works towards the provision of quality education to the underprivileged children. As part of JPMC's Social welfare program called "Force for Good", I, along with 4 more members developed a software solution for Pratham to manage its education centers and gain insights using Analytics and Business Intelligence Tools (Power BI). We migrated their existing OLTP database from Salesforce to Azure Cloud using a BI/ETL tool called Pentaho. On top of this data we developed and extracted various reports which enabled the Pratham team to gain valuable insights and helped in decision making. Reports were made using PowerBI and users could perform various functions on the reports and charts such as aggregation, slicing, dicing, making multidimensional OLAP cubes, Roll Up, Drill down, Pivoting etc. Data presented in these charts/reports were updated daily using the aforementioned ETL tool.

✛ 268, 000 (and growing) number of people reached on StackOverflow:
https://stackoverflow.com/users/1091784/ritesht93

✛ Technical Skills

- Java (SE & EE)
- Python
- Web tech: HTML, AngularJS, Bootstrap, JQuery
- Pentaho ETL
- SCM and build automation tools: Git, Jenkins, Maven
- Lua
- C
- TDD Fitnesse

✛ Internships/Training:

- **Data Structures and C++ programming at NIIT**   **2009 Summer Vacation**
- **Sara Software Labs**   **2012 Summer Vacation**

✛ Papers Published (April-2014)

Published a paper titled *"Emergence in Web-based Botnets (Targeting Application Layer)"* in International Journal of Engineering and Research (IJERT, ESRSA Publications) Journal Volume 3, Issue 4 (April-2014). ISSN: 2278-0181. Available at: https://www.ijert.org/download/9386/emergence-in-web-based-botnets-targeting-application-layer

Achievements

- JP Morgan Chase Tech Savvy title awarded in 2015.
- Participated and reached till final round as Student Coder of JPMC **Code for Good** Hackathon, Mumbai (12, 13 July, 2014)
- **Ranked 1st in all 3 years of diploma** in computer technology branch
- Computer Society of India (CSI) council member designations
  - Junior Technical Officer for the year 2012-2013
  - Senior Technical Officer for the year 2013-2014
    - Managed and conducted society events both technical and non-technical
    - Presented various seminars in collaboration with **IIT-Bombay** (Python, etc.) and solely under CSI-VESIT.

Major Projects Developed

Sr No	Project Title	Concepts Implemented/ Languages Used	Developed under/for	Duration/Year of development
1	Console based Bank Simulation	➢ Java	Computer Application Subject in Curriculum	10th Standard ICSE Project (2008-09)
Bank Simulation included accounts, Deposits, currency conversion etc.				
2	Website (Golden Fun Store)	➢ HTML	Web Page Designing Subject in Curriculum	Diploma Comp Tech Semester 2 (2010)
A simple website displaying a menu consisting of games and casual information.				
3	Xquisite (Game Zone)	➢ C++ (BGI)	OOP Subject in Curriculum	Diploma Comp Tech Semester 3 (2010)
A simple collection of interactive GUI mouse based games (Bingo, Xn0, Bingo, Pac man)				
4	Android Audio and Screen Recorder for (Non)Rooted Phones	➢ Android (Java, XML)	Industrial Project Development Subject in Curriculum	Diploma Comp Tech Semester 6 (2012) = Final Year Project
This app helps users to take screenshots and record their screen. App captures the frame buffer which needs root user/superuser permissions (Linux-based Android OS), hence the app is a rooted one. There is also a non-rooted version which loads the background service off the PC to the mobile via an automated BASH/BATCH/PS script.				
5	Sentiment Analysis using Opinion Mining.	➢ ASP.NET (C#), SQL Server (Supervised Machine Learning)	Internship	Diploma Year 3 Vacations (2012)
Predefined 8 movie review sites were chosen and split into half consisting of training dataset and test dataset. I developed an ASP.NET + SQL Server Web App which crawled (fixed depth) the test dataset, and for each movie the movie name, details, review and user comments were scraped out with help of Html Agility Pack's DOM based Library. These were then tokenized and matched against a DB of words (adjectives majorly) to produce scores (+ve, -ve and neutral). Score obtained after scraping test dataset and scores calculated previously using training data set were averaged to get final rating out of 5.				
6	Wireless MCQ Quiz App (Wireless Elimination)	➢ Android (Java, XML) Client over Wi-Fi (Sockets) ➢ Java Multithreaded Server over Wi-Fi (Swing, XML/EXI)	Computer Society of India	Bachelors in Computer Engineering (2013)
Earlier without this app, elimination round for events used to be paper based and results would come out the next day after manually checking the papers.				
7	CSI-VESIT Experience Android App	➢ Android (Java, XML) Client ➢ Web based Server (RSS XML for notifications)	Computer Society of India	Bachelors in Computer Engineering (2013)
CSI-VESIT Society App for its members gave them an opportunity to get to know about the schedule and event descriptions beforehand using RSS based notifications.				

8	Computer Builder Website	➢ PHP + MySQL ➢ HTML	Web Engineering Subject in Curriculum	Bachelors in Computer Engineering (2014)
A website that provided users a guided tour in selecting their own high end computer keeping in mind compatibility and performance.				

9	Automated Attendance Monitoring System	➢ Android (Java, XML)
		➢ Java
		   o DB Connection Pooling
		   o Socket Programming over Wi-Fi
		➢ PHP + MySQL
			Exclusive Scholarship Program	Bachelors in Computer Engineering (2014)

Android App that automates the manual paper-based work of taking attendance. Architecture is independent of time table, shifts, etc hence would be applicable for any university.				
10	CSI-VESIT Cricomania Event (IPL auction)	➢ Android (Java, XML) ➢ Java (Socket Programming over Wi-Fi) ➢ PHP + MySQL	Computer Society of India	Bachelors in Computer Engineering (2014)

A complete package of 5 applications made exclusively for Cricomania event of CSI-VESIT. Components include:
   • Android App and Server over Wi-Fi to track scores of events played
   • Auction handler (which team bought which player) and who won based on total brand value of players				

11	DDoS Botnet	➢ Android (Java, XML) ➢ Java ➢ PHP + MySQL ➢ C#.NET ➢ Hosted my home PC as a Web & FTP server using D-DNS	Seminar Subject in Curriculum	Bachelors in Computer Engineering (2014)
Botnet is basically an army of compromised hosts that have software bots running in background. These bots blindly follow the commands given by a central Command and Control (CNC) Server. My project had a CNC FTP and Web based server which commanded bots located at some remote location to carry out Distributed Denial of Service (DDoS) attack on a victim server using different methods such as PingFlood, TCP SYN Flood etc.				
12	RPyPXE Network Booting	➢ Python on a cluster of Raspberry Pi	Final Year Project	Bachelors in Computer Engineering (2015)
RPyPXE (**R**aspberry Pi **Py**thon **P**reboot E**X**ecution **E**nvironment Server) is a DHCP + TFTP + HTTP server written purely in Python and runs on a Raspberry Pi or a cluster of Raspberry Pis. Whenever a computer boots up, there is a CPU RESET event and then the control gets transferred to the BIOS/UEFI which performs POST (Power on Self-Test) and then looks for a bootloader in the defined boot sequence. Usually the computer boots up from the hard drive or USB, instead this project aimed to boot a computer after acquiring files via the Network Interface Card using PXE. This project acquired the necessary files to boot either using HTTP over LAN/Internet or via TFTP.				

➕ **Extra-curricular**
  • Technical Paper Presentation (Mobile networks) during Diploma in Tech-Fest Anvesh (2012)
  • Participated in Inter-Collegiate Event "JA Titan" organized by ISTE (2012)
  • Secured 1st place in Tech-it-away Tech Quiz organized by IEEE (2012)
  • Secured 1st place in Bluff-master Event organized by IEEE (2012)
  • Participated in a 2-day Android workshop organized by Computer Society of India (2011)
  • Completed 100 Hours of certificate course in Sindhi during Diploma with grade A (2010)
  • Participated in School Level Preliminary Round of Aqua Regia – The Science Quiz (2008)
  • Completed Blue Belt Taekwondo (2002)

➕ **Interests/Hobbies**
  • Being amidst nature
  • Reading technical articles/blogs
  • Curiosity to learn about new technology
  • Coding
  • Watching Documentaries

➕ **Role Models:** Linus Torvalds, Richard Stallman