Ritesh Talreja http://ritesht.com

Work Experience, Technology Analyst & Software Engineer at JP Morgan Chase (2015-2019) ♣

- Wrote code to automate data flow, regulatory report generation & submission to financial regulators
- Carried out every phase of SDLC: SBE (Spec by Example)>Design>Dev>SIT>UAT>Prod & Monitor.
- Collaborated with global teams of business users, compliance, central bank & regulator representatives from: India (SEBI, RBI), Japan (BoJ), Singapore (MAS), 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 & contributed significantly in tech forums (especially blockchain)
- Force for Good (JPMC's Social welfare program): Developed software for Pratham NGO to manage its education centres for underprivileged children & gain valuable insights using Analytics & Business Intelligence. We migrated existing Salesforce OLTP DB to Azure using Pentaho ETL. We developed auto-updating multidimensional OLAP cube reports & charts in PowerBI to gain insights & support decision making. Users could perform functions on them such as aggregation, slicing, dicing, Roll Up, drill down, Pivoting etc.

Education

Master of Science, Computer Science	USC	2019-Present	Ongoing
Bachelors in Computer Engineering	Mumbai University	2012-2015	75.17%
Diploma in Computer Technology	MSBTE	2009-2012	84.24%
Matriculation	ICSE	2009	91.14%

4 394, 000 (& growing) number of people reached on Stack Overflow:

https://stackoverflow.com/users/1091784/ritesht93

♣ Technical Skills (Software Development & Embedded Hobbyist)

•	Java (EE & SE), Spring MVC, Hibernate ORM	•	SCM, Build Tools: Jenkins, Maven, Git, TDD Fitnesse	•	Web Tech: HTML, jQuery, Bootstrap, JS, PHP, LAMP, selenium	•	Lua, C, Arduino, NodeMCU, AVR
•	Python & Raspberry Pi	•	DB: MySQL, MongoDB, Oracle	•	Pentaho ETL	•	Android App Development

4 Published Paper (April-2014) "Emergence in Web-based Botnets (Targeting Application Layer)", International Journal of Engineering & Research (IJERT, ESRSA Publications) Journal Vol 3, Issue 4. ISSN: 2278-0181

4 Achievements

- JP Morgan Chase Tech Savvy award (2015)
- Runner up at JPMC Code for Good Hackathon (12, 13 July, 2014)
- Ranked 1st in all 3 years of diploma in Computer Technology branch
- Computer Society of India (CSI) council member designations [Managed & conducted society events both technical & non-technical, Presented various seminars in collaboration with IIT Mumbai (IIT Bombay) (Python, etc.) & solely under CSI-VESIT]
 - o Junior Technical Officer [2012-2013]
 - o Senior Technical Officer [2013-2014]

Major Projects Developed

Sr No	Project Title	Concepts Implemented/ Languages Used	Developed under/for	Duration/Year of development
1	RPyPXE Network	> Python on a cluster of	Final Year Project	Bachelors in
	Booting	Raspberry Pi		Computer
				Engineering (2015)

RPyPXE (Raspberry Pi Python Preboot EXecution Environment Server) = DHCP + TFTP + HTTP server written purely in Python running on a cluster of Raspberry Pi's. A computer boots up with a CPU RESET event then transferring control to BIOS/UEFI which performs POST (Power on Self-Test) & then looks for a bootloader in the defined boot sequence. Usually the computer boots up from hard drive or USB, this project aimed to boot a computer after acquiring files via the Network Interface Card using PXE. This project acquired necessary boot files using HTTP over LAN/Internet or via TFTP.

2	Experimental DDoS Botnet	>	Bot: C#.NET CNC Server: Dynamic DNS,	Seminar Subject in Curriculum	Bachelors in Computer		
	DD03 Dotnet		PHP, MySQL, Android App	Curriculum	Engineering (2014)		
			rin , wys QL, rindroid ripp		Engineering (2011)		
	Botnet is an army of compromised hosts with background software bots which blindly follow commands by central						
Command & Control (CNC) Server. My botnet initiated Distributed Denial of Service (DDoS) attack on a victim server using							
			lood, TCP SYN Flood etc.	Commenter Consider of India	D11		
3	CSI Cricomania		Android (Java, XML)	Computer Society of India	Bachelors in		
	(Cricket Player Auctioning		Java (Socket Programming over Wi-Fi)		Computer Engineering (2014)		
	Software)		PHP + MySQL		Eligineering (2014)		
A co			ations made exclusively for Cricom	l ania event of CSI-VESIT Comp	onents include:		
1100		•	over Wi-Fi to track scores of events		onems merace.		
Auct			ught which player) & who won bas		S		
4	Automated	>	Android (Java, XML)	Exclusive Scholarship	Bachelors in		
	Attendance	>	Java Sockets & DB	Program	Computer		
	Monitoring		Connection Pooling		Engineering		
	System		PHP + MySQL		(2014)		
	* *		manual paper-based work of taking	g attendance. Architecture is inde	ependent of time table,		
			plicable for any university.		D 1 1 1		
5	Computer Builder		PHP + MySQL	Web Engineering Subject	Bachelors in		
	Website	A A	HTML	in Curriculum	Computer		
Δ νν	sheite that provided use	,	guided tour in selecting their own h	igh-end computer keening in mi	Engineering (2014)		
	ormance.	15 a z	guided tour in selecting their own in	iigh-end computer keeping in hin	nd companionity &		
6	CSI Experience	>	Android (Java, XML) Client	Computer Society of India	Bachelors in		
	Android App		Web based Server (RSS XML	Comparer Society of Maia	Computer		
			for notifications)		Engineering (2013)		
CSI-	VESIT Society App for	r its 1	members gave them an opportunity	to get to know about the schedu			
befo	rehand using RSS based	d not	ifications.				
7	Wireless MCQ		Android (Java, XML) Client	Computer Society of India	Bachelors in		
	Quiz App (Wi-Fi		Java Multithreaded Server		Computer		
	Sockets)		(Swing, XML/EXI)		Engineering (2013)		
Б 1	2.1	<u> </u>	. 16	1 10 11	1		
Earlier without this app, elimination round for events used to be paper based & results would come out the next day after manually checking the papers.							
8	Sentiment	1	ASP.NET (C#), SQL Server (Internship (Sara Software	Diploma Year 3		
0	Analysis using		Supervised Machine Learning)	Labs)	Vacations (2012)		
	Opinion Mining.		Jupervised Machine Learning /	Laus)	vacations (2012)		
	• 8 movie review sites = 4 Training Dataset + 4 Test Dataset. Web App crawled (fixed depth) the training dataset, &						
			e, details, review & user comments	11 ,			
Library. These were tokenized & matched against a DB of words (adjectives majorly) to produce scores (+ve, -ve &							
neutral). Score obtained after scraping test dataset & scores calculated previously using training data set were							
0	averaged to get fina			T. L. C. I.D. C.	D' 1 C T 1		
9	RecordShot Audio		Android (Java, XML)	Industrial Project	Diploma Comp Tech		
	& Screen Recorder	>	[Rooted & Non-Rooted]	Development Subject in Curriculum	Semester 6 (2012) = Final Year Project		
Root	ed version captures fra		<u> </u>				
Rooted version captures frame buffer which needs root/superuser permissions (Linux-based Android OS). Non-rooted version loads the background service off the PC to mobile via an automated BASH/BATCH/PS script.							
10	Xquisite (Game		C++ (BGI)	OOP Subject in	Diploma Comp Tech		
	Zone)		· - /	Curriculum	Semester 3 (2010)		
A sin	A simple collection of interactive GUI mouse based games (Bingo, Xn0, Bingo, Pac man)						
i			_				

Extra-curricular

- Technical Paper Presentation (Mobile networks) during Diploma in Tech-Fest Anvesh (2012)
- Secured 1st place in Tech-it-away Tech Quiz & Bluff-master organized by IEEE (2012)