Ritesh Talreja   **http://riresht.com** | **linkedin.com/in/riteshtalreja/** | **riteshar@usc.edu** | **+1 415-909-0560**

WORK EXPERIENCE

- **Parallel Agile - Directed Research**, Full Stack MEAN Software Developer   **Jan 2020 – Present**
  - Multi-DBMS (SQL & NoSQL) CASE Tool
- **Unify IoT Technologies** - Full Stack & Embedded Software Engineer   **Jun 2018 - May2019**
  - Research & PoC in Blockchain for IoT to eliminate cloud middleman using IPFS
  - Smart WiFi Socket (ESP8266 μC, NodeMCU Lua F/W) mDNS discoverable, Timers, Calendar, Fixed/Travel Mode
  - Smart Lid: Water Tank Level Switch to auto-turn on/off pump (AVR, Ultrasonic sensor & HC06 Bluetooth)
  - Developed corresponding Android & Cloud GAE Python Flask REST API for remote monitoring & control
- **JP Morgan Chase:** Tech Analyst [2 yrs]→Promoted to Full Stack Software Engineer [1 yr]   **Jul 2015 – May 2018**
  - Wrote code to automate data flow, regulatory report generation & submission to financial regulators
  - Code consumed data from various upstream systems across diverse financial products of Capital (Stocks & Bonds) & Commodity Markets, Derivatives Markets, Futures & Forwards, Forex, Swaps
  - 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.
  - Made regular enhancements in existing frameworks & was actively involved in forums (especially blockchain)
  - **Force for Good Team (JPMC's Social welfare program, 2015-16, parallel to job)**: Migrated OLTP DB to Azure using Pentaho ETL & developed multidimensional OLAP cube reports in PowerBI for Pratham NGO to manage its education centres for underprivileged children & gain valuable insights using Analytics. Some functions: aggregation, slicing, dicing, roll-up, drill down, pivoting etc.

EDUCATION

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

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, MEAN stack	• Lua, C, Arduino, NodeMCU, AVR
• Python, NodeJS & Raspberry Pi	• Databases: MySQL, MongoDB, Oracle	• Pentaho ETL	• Android App Development

ACHIEVEMENTS & EXTRA-CURRICULAR

• **$5000 scholarship by USC Viterbi**	2020
• **400,000 (& growing) number of people reached on StackOverflow**	Ongoing
• **JP Morgan Chase Tech Savvy Award**	2015
• Published Paper "Emergence in Web-based Botnets (Targeting Application Layer)", IJERT, ESRSA Publications, Journal Vol 3, Issue 4. ISSN: 2278-0181	April 2014
• **Societies: Junior & Senior Technical Council Officer @ Computer Society of India (CSI)** Managed & conducted tech & non-tech society events. Presented various seminars in collab with IIT Bombay & solely under CSI-VESIT. Secured 1st in Tech-It-Away Quiz (IEEE member).	2012-2014
• **Runner up @ JPMC Code for Good Hackathon**	12,13 Jul 2014
• **Ranked 1st in ALL 3 years of Diploma in Computer Technology branch**	2009-2012

MAJOR PROJECTS DEVELOPED

• PXE N/W Boot Server (Python Raspberry Pi Cluster)	2015
• Experimental DDoS Botnet (C#, DDNS, Android SDK, PHP, MySQL)	2014
• Cricomania [Cricket Player Auction Tracking] (Android SDK, Java: Sockets, Swing, PHP, MySQL)	2014
• Automated Attendance Monitoring System (Android SDK, Java: Sockets, Swing, PHP, MySQL)	2014
• CSI Experience Android App (Android SDK, RSS)	2013
• Wireless MCQ Quiz Android App (Android SDK, Java: Sockets, Swing)	2013
• Sentiment Analysis using Opinion Mining (Supervised Machine Learning, ASP.NET (C#), MS-SQL)	2012
• RecordShot Audio & Screen Recorder (Android SDK, Shell scripting)	2012
• Xquisite (Game Zone) (C++ Borland Graphics Interface)	2010