+1 415-909-0560   **Ritesh Talreja**   **riteshar@usc.edu**
http://ritesht.com

- **Work Experience**: **Embedded Software Engineer @ Unify IoT Technologies [Jun 2018 - May2019]**
  - Research & PoC in Blockchain for IoT to eliminate cloud middleman using IPFS
  - Smart WiFi Socket (ESP8266 µC, NodeMCU Lua firmware) mDNS discoverable, Timers, Calendar Sync, Easy Setup into Fixed (to WiFi router) Mode & Travel Mode
  - Smart Lid: Water Tank Level Switch to auto-turn on/off pump (AVR, Ultrasonic sensor & HC06 Bluetooth)
  - Developed corresponding Android & GAE Python Flask REST API for remote monitoring & control
- **Work Experience**: **Technology Analyst, Software Engineer @ JP Morgan Chase[Jul 2015 -May 2018]**
  - 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)**: 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**

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%

- **394, 000 (& growing) number of people** reached [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

- **Published Paper (April-2014)** *"Emergence in Web-based Botnets (Targeting Application Layer)"*, IJERT, ESRSA Publications, Journal Vol 3, Issue 4. ISSN: 2278-0181
- **Achievements**
  - **JP Morgan Chase Tech Savvy Award**   2015
  - **Ranked 1st in all 3 years of diploma in Computer Technology branch**   2009-2012
  - **Junior & Senior Technical Officer @ Computer Society of India (CSI)**   2012-2014
    As a council member I managed & conducted society events both technical & non-technical, Presented various seminars in collaboration with IIT Bombay (Python, etc.) & solely under CSI-VESIT
  - **Runner up at JPMC Code for Good Hackathon**   12,13 July, 2014
- **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
  - Computer Builder Website (PHP, MySQL, HTML)   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 ML, ASP.NET (C#), MS-SQL) 2012
  - RecordShot Audio & Screen Recorder (Android SDK, Shell scripting)   2012
  - Xquisite (Game Zone) (C++ Borland Graphics Interface)   2010
- **Extra-Curricular** (Secured 1st place in Tech-it-away Tech Quiz & Bluff-master organized by IEEE) 2012