

# Ritesh Talreja

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## EDUCATION

**University of Southern California (Master of Science, Computer Science + Networking)** Aug 2019—Present

Coursework: Algorithm Design, Advanced OS, Web Technologies, Computer Networking & Communications, Security Systems

**University of Mumbai (Bachelor of Engineering, Computer Engineering)**

May 2012—May 2015

Coursework: OOP (Java), Data Structures and Files, DBMS, Advanced Microprocessor, Data Warehouse and Mining, C Programming

## TECHNICAL SKILLS

**Languages:** Python, Java (EE and SE), JavaScript, TypeScript, SQL, Unix Shell Scripting, HTML, CSS, C, Lua  
**Platforms:** Google Cloud, Linux, TCP/IP Protocol Suite, Raspberry Pi, Arduino/AVR, Espressif  
**Tools:** Git, Docker, Selenium, Wireshark, xFittness TDD, Jenkins, Pentaho ETL, Eclipse, IntelliJ  
**Frameworks:** MEAN, MERN, ReactNative, Flutter, Spring, Hibernate, NodeMCU, Android SDK, jQuery, Bootstrap, LAMP  
**Databases:** MySQL, MongoDB, Oracle, PostgreSQL (and PostGIS Spatial)

## WORK EXPERIENCE

**University of Southern California, LA, CA** May 2020—Present

CSCI 585 Database Systems Grader

(DBMS + PostGIS)

**Parallel Agile Inc., LA, CA**

Jan 2020—Present

USC Directed Research Full Stack Software Developer

(Scala, Flutter, MERN (TS), MEAN(TS), React-Native)

- Automated Code generation i.e. writing code to generate code from UML diagrams for: REST APIs, Multiple (8) SQL and NoSQL DB Schemas with ORMs and multiple client-side UI (Web and Mobile) **enabling parallel development in addition to slashing full-stack development time and effort by more than 50%**

**Unify IoT Technologies, Mumbai**

Jun 2018—May 2019

Full Stack, Cloud & Distributed Systems Software Engineer

(Google Cloud, NodeMCU Lua, AVR, Android SDK, IPFS)

- Researched and implemented Blockchain PoC for IoT to eliminate cloud middleman using IPFS saving recurring cloud costs.
- Developed [Smart WiFi Socket with mDNS discoverability, Timers, Calendar, Fixed/Travel Mode](#) and [Smart Lid: Water Tank Level Switch to auto-turn on/off pump](#) along with corresponding Android and Cloud GAE API for remote monitoring and control.

**JP Morgan Chase & Co., Mumbai**

Jul 2015—May 2018

Technology Analyst to Full Stack Software Engineer

(Java EE: Spring, Hibernate, Oracle, Autosys, Pentaho ETL, xFittness TDD)

- Automated data flow from many front office market-facing systems for scheduled report generation and submission to financial regulators freeing up financial analyst's manual MS-Excel work of report building.**
- Carried out every phase of SDLC for multiple reports (Requirements>Design>Dev>SIT>UAT>Prod) in collaboration with global teams of business users, compliance, central bank and regulator representatives when required.

**Volunteered for Force for Good Team (JPMC's Social welfare program for Pratham NGO)**

Jul 2015—Jul 2016

- Migrated Salesforce OLTP DB to Azure SQL DB using Pentaho ETL implementing PowerBI multidimensional OLAP cube reports on top of it. Reports helped higher management to govern 20+ nationwide education centres for underprivileged children and gain valuable insights using Analytics and OLAP cube functions such as aggregation, slicing/dicing, roll-up, drill-down etc.

## AWARDS

\$5000 Scholarship by USC Viterbi

Jan 2020

JP Morgan Chase Tech Savvy Award

Jul 2015

Ranked 1st in ALL 3 years of Diploma in Computer Technology branch

May 2009—May 2012

## LEADERSHIP AND INVOLVEMENT

Reached ~ half million (and growing) number of people on [StackOverflow](#)

Ongoing

Served as Junior and Senior Technical Council Officer @ Computer Society of India (CSI)

May 2012—May 2014

Secured Runner up Position @ JPMC Code for Good Hackathon

Jul 2014

## PROJECTS

[Stock Search, Watch listing and Portfolio](#) (Angular, Express, Google App Engine)

Oct 2020

[PXE N/W Boot Server](#) (Python Raspberry Pi Cluster)

Apr 2015

Published Paper "[Emergence in Web-based Botnets \(Targeting Application Layer\)](#)", IJERT

Apr 2014

[Experimental DDoS Botnet](#) (C#, DDNS, Android SDK, PHP, MySQL)

Dec 2014

[Cricomania \[ Cricket Player Auction Tracking\]](#) (Android SDK, Java: Sockets, Swing, PHP, MySQL)

Mar 2014

[Automated Attendance Monitoring System](#) (Android SDK, Java: Sockets, Swing, PHP, MySQL)

Mar 2014

[CSI Experience Android App](#) (Android SDK, RSS)

Dec 2013

[Wireless MCQ Quiz Android App](#) (Android SDK, Java: Sockets, Swing)

Apr 2013

[Sentiment Analysis using Opinion Mining](#) (Supervised Machine Learning, ASP.NET (C#), MS-SQL)

Jun 2012

[RecordShot Audio and Screen Recorder](#) (Android SDK, Shell scripting)

Mar 2012