

Ritesh Talreja

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EDUCATION

University of Southern California (Master of Science, Computer Science) **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, xFittesse TDD, Jenkins, Maven, 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 Technologies, Mumbai **Jun 2018—May 2019**
Full Stack, Cloud, Blockchain 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, xFittesse 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 473,000 (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

[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**