

Ritesh Talreja

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EDUCATION

University of Southern California (Master of Science, Computer Science, Networking) **August 2019 – Present**

Coursework: Algorithm Design, Advanced OS, Foundations of Artificial Intelligence, Applied Machine Learning for Games

University of Mumbai (Bachelor of Engineering, Computer Engineering) **May 2012 – May 2015**

Coursework: Data Structures, Database Management System, Advanced Microprocessor, Data Warehouse and Mining

Maharashtra State Board of Technical Education (Diploma in Computer Technology) **May 2009 – May 2012**

Coursework: Introduction to Programming in C, Object Oriented Programming using Java, Data Structures and Files

TECHNICAL SKILLS (SOFTWARE DEVELOPMENT and EMBEDDED HOBBYIST)

Programming Languages: Python, Java (EE and SE), JavaScript, Unix Shell Scripting, C, Lua, PHP, HTML

Platforms: Linux, Raspberry Pi, Arduino/AVR, Espressif, TCP/IP Protocol Suite

Tools: Git, Jenkins, Maven, Pentaho ETL, Eclipse, NetBeans, IntelliJ, Selenium

Frameworks: Spring, Hibernate, NodeJS, NodeMCU, Android SDK, jQuery, Bootstrap, TDD Fittesse, XAMPP, MEAN, Flutter, React

Databases: MySQL, MongoDB, Oracle, PostgreSQL (and PostGIS)

WORK EXPERIENCE

Parallel Agile, Los Angeles – USC Directed Research Full Stack Scala & MEAN Software Developer **January 2020 – Present**

- Automated Code generation (writing code to generate code) for: REST APIs, Multiple (8) RDBMS using typeORM, Client-side UI for multiple platforms (Web, Android and iOS), Automated tests [MVC CASE Tool]

Unify IoT Technologies, Mumbai - Full Stack and Embedded Software Engineer **June 2018 – May 2019**

- Researched and implemented PoC in Blockchain for IoT to eliminate cloud middleman using IPFS
- Developed [Smart WiFi Socket \(ESP8266 µC, NodeMCU Lua F/W\) mDNS discoverable, Timers, Calendar, Fixed/Travel Mode](#)
- Developed [Smart Lid: Water Tank Level Switch to auto-turn on/off pump \(AVR, Ultrasonic sensor and HC06 Bluetooth\)](#)
- Developed corresponding Android and Cloud GAE Python Flask REST API for remote monitoring and control

JP Morgan Chase & Co., Mumbai **July 2015 – May 2018**

Full Stack Software Engineer **June 2017 – May 2018**

Technology Analyst (Software Development and Production Support) **July 2015 – June 2017**

- Worked primarily in Corporate & Investment Banking Back Office, GSO (Global Service Operations) Tech, Regulatory Reporting
- Implemented software to automate data flow, regulatory report generation and submission to financial regulators
- Carried out every phase of SDLC: SBE (Spec by Example)>Design>Dev>SIT>UAT>Prod and Monitor
- Collaborated with global teams of business users, compliance, central bank and regulator representatives
- Enhanced existing frameworks with new features and was actively involved in forums (especially blockchain)

Volunteered for Force for Good Team (JPMC's Social welfare program for Pratham NGO) **July 2015 – July 2016**

- Migrated Salesforce OLTP DB to Azure using Pentaho ETL. Implemented multidimensional OLAP cube reports in PowerBI to manage client's 20+ nationwide education centres for underprivileged children and gain valuable insights using Analytics.
- Implemented following OLAP cube functions: aggregation, slicing, dicing, roll-up, drill down, pivoting etc

HONORS and AWARDS

- \$5000 Scholarship by USC Viterbi** **2020**
- JP Morgan Chase Tech Savvy Award** **2015**
- Ranked 1st in ALL 3 years of Diploma in Computer Technology branch** **2009 – 2012**

EXTRA-CURRICULAR

- Reached 400,000 (and growing) number of people on [StackOverflow](#)** **Ongoing**
- Served as Junior and Senior Technical Council Officer @ Computer Society of India (CSI)** **2012 – 2014**
Managed and conducted tech and non-tech society events. Presented various seminars in collab with IIT Bombay and solely under CSI-VESIT. Secured 1st in Tech-It-Away Quiz (IEEE member).
- Secured Runner up Position @ JPMC Code for Good Hackathon** **12,13 July 2014**

PROJECTS and PUBLICATIONS

- [PXE N/W Boot Server](#) (Python Raspberry Pi Cluster) **2015**
- Published Paper "[Emergence in Web-based Botnets \(Targeting Application Layer\)](#)", IJERT **April 2014**
- [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 and Screen Recorder](#) (Android SDK, Shell scripting) **2012**