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
Tools: Git, Jenkins, Maven, Pentaho ETL, Eclipse, NetBeans, IntelliJ, Selenium
Frameworks: Spring MVC, Hibernate ORM, NodeJS, NodeMCU, Android SDK, jQuery, Bootstrap, TDD Fitnesse, XAMPP, MEAN
Databases: MySQL, MongoDB, Oracle, PostgreSQL

WORK EXPERIENCE

Parallel Agile, Los Angeles – USC Directed Research Full Stack Scala & MEAN Software Developer   **January 2020 – Present**
- Multi-DBMS (SQL and NoSQL) CASE Tool

Unify IoT Technologies, Mumbai - Full Stack and Embedded Software Engineer   **June 2018 – May2019**
- Researched and Developed 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 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**
- Developed software to automate data flow, regulatory report generation and submission to financial regulators
- Consumed data from various upstream systems in the code across diverse financial products of Capital (Stocks, Bonds) and Commodity Markets, Derivatives Markets, Futures and Forwards, Forex, Swaps
- 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)

Force for Good Team (JPMC's Social welfare program for Pratham NGO)   **July 2015 – July 2016**
- Migrated OLTP DB to Azure using Pentaho ETL. Developed multidimensional OLAP cube reports in PowerBI to manage NGOs 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

- **400,000 (and growing) number of people reached on StackOverflow**   **Ongoing**
- **Societies: 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).
- **Runner up @ JPMC Code for Good Hackathon**   **12,13 July 2014**

MAJOR 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**