

Ritesh Talreja

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EDUCATION

University of Southern California (Master of Science, Computer Science)	August 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 using Java, Data Structures and Files, DBMS, Advanced Microprocessor, Data Warehouse and Mining, C Programming	

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 Fitnesse, XAMPP, MEAN, Flutter, React
Databases: MySQL, MongoDB, Oracle, PostgreSQL (and PostGIS)

WORK EXPERIENCE

University of Southern California, CSCI 585 Database Systems Grader	May 2020 – Present
Parallel Agile, Los Angeles – USC Directed Research Full Stack Scala & MERN Software Developer	January 2020 – Present
<ul style="list-style-type: none">Automated Code generation i.e. writing code to generate code from UML diagrams for: REST APIs, Multiple (8) RDBMS using 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 - Full Stack and Embedded Software Engineer	June 2018 – May 2019
<ul style="list-style-type: none">Researched and implemented PoC in Blockchain for IoT to eliminate cloud middleman using IPFS saving recurring cloud costs.Developed Smart WiFi Socket (ESP8266 µC, NodeMCU Lua F/W) mDNS discoverable, Timers, Calendar, Fixed/Travel Mode and Smart Lid: Water Tank Level Switch to auto-turn on/off pump (AVR, Ultrasonic sensor and HC06 Bluetooth) along with their 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 Ticket Support)	July 2015 – June 2017
<ul style="list-style-type: none">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 independently for multiple reports (Requirements>Design>Dev>SIT>UAT>Prod) at the same time collaborating 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)	July 2015 – July 2016
<ul style="list-style-type: none">Migrated Salesforce OLTP DB to Azure SQL DB using Pentaho ETL implementing multidimensional OLAP cube reports on top using PowerBI. 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	

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) Managed and conducted tech and non-tech society events. Presented various seminars in collaboration with IIT Bombay and solely under CSI-VESIT. Secured 1 st in IEEE Tech-It-Away Quiz.	2012 – 2014
• 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