Ritesh Talreja

Los Angeles, California | https://riresht.com | linkedin.com/in/riteshtalreja/ | riteshar@usc.edu | 415-909-0560

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, xFitnesse 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 IoT 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, xFitnesse 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

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**