PS

PRABHJOT SINGH

Lead Software Engineer, Salesforce Inc.
Master in Software Engineering, Carnegie Mellon University

ACADEMIC QUALIFICATION

Master of Science	Software Engineering and Development Management ***Carnegie Mellon University*, Pittsburg, US**
Bachelor of Technology	Instrumentation and Control Engineering ***Dr. B.R. Ambedkar National Institute of Technology*, Jalandhar**
Stanford Certificate Course	Innovation and Entrepreneurship Certificate (Pursuing) ***Stanford*, California, US**

PROFESSIONAL QUALIFICATION

LEAD SOFTWARE ENGINEER SALESFORCE INC., SAN FRANCISCO, US **2017-Current**

Previous Positions: Associate Member of Technical Saff, Member of Techical Staff, Senior Software Engineer 2013-2017

Technologies: Docker Swarm, Kafka, Solr, Pitney Bowes, Couchbase, Hbase, EC2, AWS, Rest API, MySql, Splunk, GIT, svn, Jenkins, HTML5, JAVA, Apex

- Lead a team of 8 to deliver matching and vendor API integration for Data as a Platform solution (Lightning Data).
- Designed and developed metadata driven Third Party API integration.
- Designed and developed metadata driven authentication mechanism, request generators and response parsers.
- Leading a project to transition to GIT from SVN.
- Lead a project to move whole stack from Java 7 to Java 8, and later from Java 8 to openjdk.
- Lead adaptive indexing project from inception to AB testing stage.
- Worked closely with vendors and in overseeing API integrations.
- Developed APEX package for data assessment.
- Worked with business partners in increasing throughput capacity from 10K request/hr to 1 million request/hr. Increased throughput enable customers to clean data in 5X less time, and helped sales to generate additional 15% revenue/year.

- Designed and developed automated solution to monitor complete infrastructure uptime parameters.
- Implemented log based alerting mechanism, traffic distribution dashboards, and production validation scripts. Automated system reduced deployment time from 3hrs to 15mins, bumped uptime to 99.994%, and reduced team's engineering effort by 6% per year.

TATA CONSULTANCY SERVICES **ASSISTANT SYSTEMS ENGINEER** **FEB 2012 – JULY 2012**

Technologies: Eclipse, Java

- Developed an agile process management tool-Kanban Board that helped client in analyzing bottlenecks and reaching market swiftly.
- Led a team of six trainees' for development of Telecom Store Inventory product, and won the first prize out of 10 teams

SENSIFI INC **SOFTWARE ENGINEER** **AUG 2010 – MAY 2011**

Technologies: XCode, Objective C, Heroku

- Designed, developed and published a RSS comic strip aggregator app, Comimix, on Apple app Store. App got featured at numerous websites as "app of the day" with total downloads crossing ~10K mark.
- Performed market research, idea validation and gathered feedback in terms of usability. Incorporated the feedback like date/time filters, custom website addition for enhanced user experience.
- Analyzed usage patterns, and pivoted our revenue model from paid app to advertisement revenue. This bumped up app's revenue to 1.6X.
- Implemented features like asynchronous download and multithreading for stream-less swiping. • Integrated social handles for quick sharing and social marketing.

PATENTS

U.S. Patent No. US20170228391A1. **Cache optimization for missing data** (2016). Washington, DC: U.S. Patent and Trademark Office. (Pending Approval)

Data as a Service Platform (2017). Washington, DC: U.S. Patent and Trademark Office. (Pending Publication)

Multi Third Party Authorization Management (2017). Washington, DC: U.S. Patent and Trademark Office. (Pending Publication)

Generic Vendor API Integration (2018). Washington, DC: U.S. Patent and Trademark Office. (Pending Publication)

CERTIFICATION

- AWS Certified Solutions Architect – Associate
- AWS Certified Developer – Associate
- Pragmatic Marketing, Level VI Product Management Certification

- Splunk Certified Power User 6.3
- Splunk Certified Knowledge Manager V.6

BOOK CHAPTERS

Tomar P., Kaur G., **Singh P.** (2018) **A Prototype of IoT-Based Real Time Smart Street Parking System for Smart Cities**. In: Dey N., Hassanien A., Bhatt C., Ashour A., Satapathy S. (eds) Internet of Things and Big Data Analytics Toward Next-Generation Intelligence. Studies in Big Data, vol 30. Springer, Cham

Kaur G., Tomar P., **Singh P**. (2018) **Design of Cloud-Based Green IoT Architecture for Smart Cities**. In: Dey N., Hassanien A., Bhatt C., Ashour A., Satapathy S. (eds) Internet of Things and Big Data Analytics Toward Next-Generation Intelligence. Studies in Big Data, vol 30. Springer, Cham

Y. Parasher, D. Kedia, and **P. Singh**, "**Examining Current Standards for Cloud Computing and IoT,**" in Examining Cloud Computing Technologies Through the Internet of Things, 2017, p. 116 - p. 124.

JOURNALS

Tomar, P.; **Singh, P**. Kaur, G**.** and Sharma, S. (2016). "**Maintainability of Software by using Computational Intelligence from Software Erosion**", Journal of Global Information Technology, Pub: MTMI, USA, ISSN 1931-8162, Vol. 11, No. 1, pp. 23-36 **(Indexed : UGC)**

Kaur, G., Rani, N., Parasher, Y., **Singh P**. (2018). **Design and Implementation of Electro-Optic 2×2 Switch and Optical Gates using MZI . Journal of Optical Communications**, 0(0), pp. -. Retrieved 16 Apr. 2018, from doi:10.1515/joc-2017-0198

Narang, S., & **Singh, P.** (2014, May). **Comparison of Results of PID and Fuzzy Control of Two Linked Rigid Manipulator**. *International Journal of Science and Research (IJSR),3*(5), 377-380.

Singh, P., & Shrivastav, A. (2011). **Performance Analysis And Comparison Of Various Two Dimensional Optical Orthogonal Codes For Ocdma Systems**. In International Journal on Electronic and Electrical Engineering (IJEEE) (Winter ed., Vol. 16, pp. 01-08).

CONFERENCES

Singh, P., Tomar, P., Kaur, G. and Goel, S. K. (2017), "**Reusability Estimation Model for Component-Based Software using Fuzzy Logic**", 2017 MTMI International Conference on Emerging Issue in Business, Technology and Applied Science, Dubai, UAE, (Paper Accepted).