Abhishek Aggarwal

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EDUCATION

May 2014	**Master of Science in Electrical Engineering** University of Southern California, Los Angeles
June 2009	**Bachelor of Technology in Electronics and Communication Engineering** GGS Indraprastha University, Delhi, India

WORK

Mar 14 – Present **Gurucul**, Los Angeles/Gurgaon   **Solution Consultant**
- Solutions Consultant/Architect for User & Entity Behavior Analytics (UEBA) solution
- Leading Customer Implementations by providing end-to-end deliverables (Architecture, Application, ML/AI-Based Algorithms & Support)
- Pre-Sales & Leading PoC's across APAC Region

Jul 13 – Oct 13 **Gurucul**, Los Angeles   **Software Engineer Intern**
- Deployed Application, RDBMS, BigData & Elastic Search Engine on distributed cluster with High Availability
- Closely Worked with Data Science to design Behavior-Based analytical models which uses contextual analytics and link algorithms to flag anomalous users in an organization

Oct 09 – Jan 11 **Indiabulls**, Gurgaon, India   **Application Support Engineer**
- Maintained and monitored production environment built on Multi-Node cluster which provides platform for intra-day trading for clients connecting via MPLS leased line and VPN
- Assisted clients by troubleshooting Network related issues
- Configured Network load balancers for High Availability Architecture

EXPERIENCE

Specialization: Linux Administration, Data Science, Pre-Sales
Key *Skills:*   Solution Architecture, Information Security, Big Data Analytics, ML/AI Algorithms, Design and Implementation, Automation

ACADEMIC   PROJECTS

Fall 13 **Implementation of Look-up protocol in a network**
- Phase 1: Process forking and TCP socket communication
- Phase 2: Several nodes form a network with each node pointing to its successor and predecessor
- Phase 3: Support for store and search keys among nodes and unexpected node departure

Spring 13 **Multi-threading Token Bucket**
- Emulated a traffic controller/shaper, which controls rate of packet flow using token bucket filter
- Used doubly linked list to store packets in the queues

Spring 14 **NFC Enabled Room occupancy detection**
- Built an Android mobile app that detects real-time room occupancy information from remote location
- Components: Android phone, NFC chips, server and database server

Fall 12 **File Sharing using Unix Socket Programming**
- Designed a client-server file sharing network via connections using TCP and UDP sockets
- Features included: Registration of peers with bootstrap server, authentication of content providers and peer to peer content sharing

Fall 12 **IMDB-Facebook Mesh up**
- Developed an Android Mobile Application to retrieve and display movie information from IMDB with the facility of posting the information to the user's Facebook news feed using extensive XML and JSON parsing

Fall 12 **IEEE 802.11 LAN Optimization**
- Simulated a wireless LAN network to study the saturation throughput by varying the offered load to receiver