Sa****p S. Sh****lya

2652 E****le Place, Los A***s, CA - 90007 | (***)-587-1**0 | s****l@u**sc.edu

Linked In - http://www.linkedin.com/in/san*******ilya

EDUCATION

University of Southern California, Viterbi School of Engineering, Los Angeles, CA

Master of Science, Computer Science   **May 2015**

Relevant Courses: Security Systems, Computer Networks, Analysis of Algorithms,
Parallel Programming, Computer Communications   **GPA: 3.75 / 4**

M. S. Ramaiah Institute of Technology (MSRIT), Bangalore, India   **Aug 2006 - May 2010**

Bachelor of Engineering, Computer Science & Engineering   **CGPA: 3.85 / 4**

TECHNICAL SKILLS

- **Programming Languages:** Java (Sun Certified Java Programmer - 5.0) & C, familiar with C++, SQL
- **Development Platforms:** Eclipse, Visual Studio
- **Operating Systems:** Windows XP/7/8, OS X, UNIX and Linux (Ubuntu)
- **Web Technologies:** Familiar with HTML, JavaScript, CSS, XML, J2EE
- **Database:** Oracle 9i/11g, Working knowledge of DB2 - 9 (IBM Certified Database Associate)
- **Miscellaneous:** Weblogic 8.1, Wireshark, OPNET Network Simulator, Understanding of Grid Computing, Cloud Computing and Windows Azure

WORK EXPERIENCE

eBay Inc. (StubHub!), San Francisco   **May 2014 - Aug 2014**

Graduate Engineering Intern

- Designed and developed a Skype Bot using Java which can listen to all the messages from the chats (singular and group chats) that it is a part of and respond to those messages automatically. Integrated the Jira bug and effort tracking system with the Skype Bot so that one can query Jira ticket details using the Skype Bot.
- Contributed to the Open Source community by providing various ideas and fixing crucial bugs for the 'Skype for Java' API. Collaborating with developers to update the API to be in sync with the updates to the Skype client.
- Evaluated and restructured a Disaster Recovery (DR) mechanism/architecture for the Production Source Control environment at StubHub.
- Developed a program and configured this program into a Jenkins job to continuously pull differential content from various Git repositories and push it as a JSON to the Content Management System.

Infosys Limited, Bangalore contracted to Pfizer Inc.   **Aug 2010 - Jun 2013**

Senior Systems Engineer

Worked on a web-based Grid computing project for enhancing a continually evolving global Pharmaco-Kinetic (PK) Non-Compartmental Analysis (NCA) system for Pfizer Inc.

- Designed and implemented enhancements in Java/J2EE technologies leveraging Pfizer's Grid Computing/HPC environment to increase the performance and availability of the NCA system.
- Enhanced the design of the NCA system with a focus on Grid related improvisations.
- Performed Unit, System, Regression testing along with gathering performance specs and performed post-deployment maintenance activities.
- Business domain expert in the Clinical Pharmacology area especially in Clinical Scientific Execution. Interacted with clients for gathering requirements (functional and non-functional) for enhancing applications.

ACADEMIC PROJECTS - USC

- **Computer Communications (CS 551)** - Research Project which led to proposal - "Attacks to Music" which was selected among top 6 proposals at NANOG Poster Presentation conference - May 2014. Research proposal involved conversion of DDoS attack signatures into an auditory signal for attack analysis and detection. Simulated and analysed sophisticated 'Spamhaus Attack' as part of proposal.
- **Parallel Programming (CS 503)** - Hadoop MapReduce Project on analysing global temperature information of 74+ GB from NCDC (National Climate Data Centre) to find meaningful insight on global warming.
- **Security Systems (CS 530)** - Authored Research Paper on "Security Issues and Securing Mechanisms in Cloud Computing".
- **Computer Networks (EE 450)** - Socket Programming Project on implementing and simulating a resource-discovery / file-sharing network using hybrid architecture with TCP and UDP sockets.

AWARDS AND ACHIEVEMENTS

- Research Proposal on "**Attacks to Music**" was selected among the top 6 proposals at the **NANOG** Poster Presentation conference - May 2014.
- Received the "**Rising Star Award (Most Valuable Fresher)**" at Infosys Limited for continued innovation in providing design suggestions and dedication at work.