

VENKATESH TAHILIANI

2951 S King Dr, Apt. #1007, Chicago, IL - 60616 | Email: pulsar.viki@gmail.com, vtahiliani@hawk.iit.edu | Phone: 708-677-5023 |

OBJECTIVE: Seeking to work in an organization with challenging opportunities where I can grow personally and professionally.

ACADEMIC SUMMARY

Illinois Institute of Technology , Chicago, IL	May 2018 -- Expected
Masters in Computer Science	GPA 3.67/4

BVB College of Engineering , Hubli, India	Jun 2014
Bachelors in Information Science and Engineering	GPA 8.22/10

Coursework: Parallel and Distributed Processing, Computer Networks 1, Mobile Application Development, Machine Learning (On-going), Data Mining (On-going), Software Project Management (On-going)

TECHNICALSKILLS

Operating Systems:	Windows, OpenSUSE, Ubuntu
Programming skills:	Java, C, Android, JavaScript, Python, Django Framework, CUDA
Database:	MySQL, MongoDB
Tools:	Microsoft Office, Eclipse IDE, Netbeans, WebRTC, Git
Web Services:	REST, AJAX
Cloud Services:	IBM Bluemix Services

PROFESSIONAL EXPERIENCE

Associate System Engineer, IBM India Pvt. Ltd, Pune	09/2014 -- 07/2016
Worked on JAVA and Python technology as well as basic XML/XSLT for developing and maintaining a Business Communication System and a Social Media Monitoring Tool where I was engaged in critical bug fixing and enhancements.	

Technologies: Java, JavaScript, AJAX, HTML, JQuery, Ant, JUnit, MongoDB, IBM Bluemix Services, Python, Django.

- Worked on an Agile driven project to develop application modules based on new requirements individually and in teams.
- Designed and implemented the user identification and retrieval module in a client server architecture based on hashcodes.
- Used Java WebSockets to develop event based message passing in JSON format for a client server architecture.
- Designed and implemented synchronized single user multi websocket module.
- Implemented P2P serverless file transfer protocol using WebRTC API.
- Implemented availability check module, a timed request to check for active user HTTP sessions.
- Implemented IBM DevOps delivery pipeline to build and deploy existing project using ant build scripts.
- Integrated JUnit and Corbetura coverage reporting for unit testing by manual configuration of the ant build file.
- Designed unit test cases for JUnit unit testing.
- Provided critical maintenance bug fixes and enhancements for social media activity monitoring tool.
- Implemented real time RESTful request logging functionality as part of the monitoring module.
- Presented product prototype to clients during agile scrum calls.

ACADEMIC PROJECT

Books2Go Mobile Application	10/2016—12/2016
Technology: Android, MySQL, MongoDB	
Project Description: Developed an android application to enable authorized students to create a profile to connect with other current or prospective students and be able to put up books for sale, bid for books or purchase them.	

Parallelizing Genetic Algorithm for Class Scheduling and Analyzing its Speedup	10/2016—12/2016
Technology: Java, CUDA, C.	
Project Description: Identified various functions of the serial genetic algorithm that can be parallelized, developed CUDA kernels for parallel execution of these functions for class scheduling and compared the performance of each function by calculating the speedup for various population sizes in serial as well as parallel mode of execution and conducted an overall comparative analysis.	

iC - Intelligent Compiler	01/2014 – 05/2014
Technology: Java	
Project Description: The objective was to simplify programming and create a semantic programming language. A programmer can program in English like language, the compiler uses Naive Bayes classifier technique to find most similar constructs referring to a training set and based on a semantics algorithm predicts an understanding probability of a token or line. Further, data analysis is done by the feedback system, which accepts successfully executed and correctly identified programming constructs and tags them to help increase effectiveness in decision making.	

Virtual Lab	06/2013 – 10/2013
Technology: C, OpenGL	
Project Description: An application which will allow users to simulate science experiments using virtual natural elements. Each virtual element (like every element in real nature) exhibits naturalistic properties when contacted with other virtual elements. Users are able to fuse two or more elements and analyze their behavior in simulation.	

ACHIEVEMENTS/PERSONAL

- Published documentation for GNOME Photos, an application for Linux distributions.
- Completed a summer internship training program at John Deere Technology Center, Pune, India.
- Hobbies include skating, swimming, table tennis and sometimes cooking.
- Fluent in English, Kannada and Hindi.