**SACHIN AMBALKAR**

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| **EDUCATION:** |  |  |
| Illinois Institute of Technology, Chicago, Illinois Master of Computer Science (GPA: 3.5/4.0) Dec 2016 | | |
| University of Pune, Maharashtra, India Bachelor of Computer Engineering (First Class) May 2012 | | |
| **MASTER COURSES:** |
| |  |  |  |  | | --- | --- | --- | --- | | Operating System Design and Implementation | Advance Database Organization | Advance Operating System | Mobile Application Development | | Programming Language Translator | Science of Programming | Online Social Network Analysis | Cloud Computing | | | |
| **SKILLS:**  **Programming Languages:** Java, C, Haskell, Linux Commands, UNIX Shell Scripting, Python, SQL.  **Frameworks:** Spring , MyBatis, AngularJS.  **Tools Experience**: Jenkins, Git, SVN, Soap UI, Splunk, Urban Code Deploy, Android Studio  **Web Servers / Technologies:** WebSphere 8.5, Liberty, Apache Tomcat   |  |  |  | | --- | --- | --- | | **EXPERIENCE:**  **Highmark, Pittsburgh, Pennsylvania** | **Senior Automation Framework| Full stack Development** | **Nov2017–Present** | | Responsibilities:   * Wrote a framework to parser to parse 837 format file in such a way that it can fetch data for any field in file using field’s details from property file. * Wrote a dependency mapping tool which shows dependency of a particular element in both upwards and downwards way in Tree. * Reduced time required for performing operation by 60% using multithreading. * >Created an application which retrieves more than 1 million records from 2 different database environments and using 6 different queries.   >Each retrieved record then compared with expected record from Excel sheet.   >Architecture application in such a way that it can run on based on allocated memory user has provided.   * Rewrote application using multi-threading and reduced time required to run application by 70%. Used virtual machines to handle workload. * Wrote an application which takes xml nodes information from property file and converts all xml data into csv. * Wrote an application which generates groovy script for Soap-UI project for triggering all test-steps inside particular test-suite. Provided values for parameters through rest web-services dynamically. * Wrote a python script, which enabled it to run an application in parallel and sequential manner. * Used Page Object Model (POM) for developing utility to automate application using selenium framework. * Used Mybatis, an object relational mapping framework for retrieving data from database. * Used Junit for writing unit test cases and Mockito framework for dependency mapping. * Used Spring’s aspect of programming for generating detailed logs. * Used Gitlab for version control and Urban Code Deployment for application deployment. * Used Maven and Gradle for dependency management * Ensured code coverage of each utility more than 90% using EclEmma plugin. | | | | **Nationwide Insurance, Columbus, Ohio** | **Software Engineer | Full stack Development** | **May2016–Oct2017** | | Project 1: Auto-Insurance Web-app   * Added new functionality into claims servicing application, which enabled policyholder to book appointment online. * Technologies used for frontend is AngularJS and for middleware is IBM Message Broker. * Re-routed all front-end requests from message broker to backend. * Created custom directives, controllers and services in AngularJS to make modular UI.   Project 2: Admin Tool   * This application helps in redirecting application to prospect generator page during release. * Wrote DAO layer in routing service which consumed as a dependency in admin tool. * Wrote database queries and retrieved data using MyBatis framework. * Wrote rest controller in Spring MVC which helps in retrieving data through routing service. * Deployed all data-source information on server and retrieved it in application using JNDI. * Used GitHub for version control, Jenkins for code build and Urban Code deploy for code deployment. | | | | **Illinois Institute of Technology, Chicago, Illinois** | **Teaching Assistant** | **Aug2015–Jan2016** |  * Worked as a teaching assistant for Programming Language Translator course. Programming language for this course was Haskell. * Responsibilities were grading assignments, machine problems and exams. Hold office hours to ensure students understood   course concepts.   |  |  |  | | --- | --- | --- | | **Inautix Technologies A BNY Mellon Company, Pune, India** | **Application Developer** | **Aug2012-Mar2014** |  * Worked on the Netx-360 web application which is used by banks to open/modify/close user’s account. * Wrote email adapter using abstract factory pattern and consumed it in 4 different modules. * Provided support during releases. Used Service-now to keep track of production incidents. | | |

**ACADEMIC PROJECTS:**

**Tera Sort using Java Implementation, Hadoop and Spark Feb2016–Mar2016**

* Designed and implemented a tool in java which is capable to sort a file of any size with any CPU’s RAM memory.
* Sorted a file of 10 Giga Bytes size on AWS’s M3.Large instance having 50GB EBS.

**Distributed File Sharing (**<https://github.com/sachinambalkar/Distributed-File-Sharing>**) Aug2015–Dec2015**

* Designed and implemented a peer to peer file sharing system using socket programming and multithreading in Java.
* Robustness of system is tested by sending 100K request concurrently from 16 AWS’s M3 Large Instances.
* Compared performance of system with Redis, MongoDB and CouchDB.

**Android Project – TrackZone (**<https://play.google.com/store/apps/details?id=cs442.com.pulse>**) Jan2015-May2015**

* This application will enable user to receive alert message when reached at the destination.
* APIs that are integrated within applications are Facebook Graph, Google Places, Google Map, Firebase.

**System Call (**<https://github.com/sachinambalkar/MinixOs/>**) Feb2015-Mar2015**

* Added new system calls inside the file system of process management (PM) in Minix OS.
* Used POSIX thread programming for implementation of this project.

**Data Recovery (**<https://github.com/sachinambalkar/MinixOs/> **Mar2015-Apr2015**

* Designed and implemented the file system tool which is capable to recover the lost data from disk.