

Saurabh Mahamine

Software Developer - Tk20, Inc

Austin, TX - Email me on Indeed: [indeed.com/r/Saurabh-Mahamine/161fedc3597cb9bc](https://www.indeed.com/r/Saurabh-Mahamine/161fedc3597cb9bc)

- Extensive experience in designing and developing software products in an agile environment including requirement analysis, code integration, testing, deployments, documentation and production support.
 - Good knowledge and working experience with MVC patterns, REST Services and Javascript frameworks.
 - Have a successful record of working on multiple projects simultaneously.
 - Eager to learn latest technologies and be updated with the latest industry trends.
 - Excellent team player with good communication skills and efficient collaboration, successful in collaborating with offshore teams.
 - Self-motivated and proactive in taking a lead to ensure smooth completion of a project.
- Willing to relocate: Anywhere
Sponsorship required to work in the US

WORK EXPERIENCE

Software Developer

Tk20, Inc - Austin, TX - April 2014 to Present

Project: Campustools HigherEd

- This is the company's main product that has multiple workflows relevant to the education sector and reporting capabilities to help universities achieve accreditation. Development wise it has 3 month release cycle with 3 weeks of development sprint.

Responsibilities:

- Worked on multiple requirements using following technologies: Java Struts framework, Postgres, Apache, Tomcat and JBoss.
- Worked on converting certain workflows of the application from struts to use REST API at backend and replaced JSPs with React-Redux components.

Project: Ctpayment

- This is the company's internal accounting software that accepts payment from the customers using PayPal as payment gateway and has multiple workflows related to accounting and also reporting capabilities.

Responsibilities:

- Worked on integration with PayPal to achieve PCI certification.
- Worked on multiple enhancements to streamline the internal accounting processes.
- Worked on reports.
- Development was done in an Agile SDLC process with 3 week release cycle.

Project: Dataloader

- This is a software component of the Tk20's campustools application written in Java that loads the data from various sources into the application database so that the campustools application can be integrated with the other softwares used by the universities to collect/generate data, example: Blackboard, Moodle.

Responsibilities:

- Designed and implemented a solution to make this component more generic so that it can intelligently handle different types of files and different table structures without any manual changes to the code.
- Designed and implemented an automated solution with email notifications so that no manual intervention is

needed in the entire process, this resulted in a huge improvement in the turnaround time between the time customer provides the data files and the time when the customer sees the data on UI.

- Designed a solution to improve the performance of this component by replacing the middleware that used Hibernate to fetch objects from database to pure JDBC and SQL statements. Implemented the POC for same and collaborated with the offshore team in India to implement the solution. This solution resulted in around 600-700% improvement in file loading speed.

Project: Onsite:

- This is an offline browser app that lets user perform certain workflows in the campustools application in an offline mode and later synch the generated data with the campustools application.

Responsibilities:

- Worked on researching the solutions, determining the architecture and the customer delivery model for this App. Created a POC using REST API using Java's Jersey-Jackson library, Postgres, AngularJS, browser's local storage for storing data.
- Collaborated with offshore team in India to implement various requirements for this product from scratch.

Project: Dashboard

- The idea to create this Application was to streamline the process of deploying a build on new customer server/migrating the existing build to a new build and streamline the communication between various actors like product owners, implementation team and the systems team by enabling product owners to schedule build upgrades/installations on customer servers easily through UI instead of creating tickets and as per the schedule the app should install/update the builds on the concerned servers without manual interventions.

Responsibilities:

- Designed and implemented this App using React-Redux on frontend, Postgres as database, REST API to communicate with the database and Ansible to write deployment/migration playbooks.
- Also designed and implemented a centralised querying solution such that a query can be run across multiple servers and results displayed in a tabular form on UI.
- Integrated this App with VCentre to access server information required by Ansible playbooks.

Project: File Storage

- The purpose of this project was to seamlessly store the files uploaded via the campustools application to cloud storage once the local server runs out of space for file storage.

Responsibilities:

- Researched into the solution and decided to use AWS s3, implemented a POC such that the file upload location is changed to s3 upon reaching the dedicated disk space limit and then the oncoming files are automatically pushed to s3.
- Integrated the solution implemented in the POC in the campustools App and modified all the file related workflows such that all the file uploads and file access actions go through a common centralised code.
- This centralised code makes a decision as to where to upload or access the requested file from either s3 or local server storage.

Software Engineer, R&D

Enformia - Davidson, NC - September 2013 to March 2014

Project: Enformia tool

- This is a tool that gathers biological data of subjects including medical conditions and physical activity and analyses the data to find patterns to draw a correlation between physical activity and medical conditions.

Responsibilities:

- Designed and implemented a component that parses and analyses the physical activity data contained in XML files and filters out bad data generated as part of false activity, this data is then displayed on the UI in form of interactive graphs.
- Implemented a solution to find physical activity patterns for each subject in the study and displayed these patterns on UI using HighCharts for comparative study.

EDUCATION

Master of Science in Computer Science in Software Engineering

University of North Carolina at Charlotte - Charlotte, NC

January 2012 to December 2013

Bachelor's in Electronics Engineering in statistics

University of Pune

August 2006 to June 2010

SKILLS

AngularJS (3 years), Apache (3 years), database (3 years), Java (3 years), Linux. (3 years), Struts (3 years), React-Redux (Less than 1 year), Tomcat (3 years)

ADDITIONAL INFORMATION

TECHNICAL SKILLS:

Operating System Linux, Centos.

Programming Java, J2EE, C, Javascript, ES6

Languages

Front-End AngularJS 1.x, React-Redux, JQuery, AJAX, HTML technologies

Database Postgres, MySQL

Application server Apache, Tomcat, JBoss

SDLC Waterfall, Agile, Scrum

Version control Git, CVS

Project Management BugZilla, Project.net, Redmine

Others Ansible, Shell Scripting