

# SUSHMA GURRAM

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## OBJECTIVE

Seeking a full-time Software Developer position which requires knowledge of technical and problem solving skills.

## SUMMARY

- Strong knowledge of **Data Structures** and their implementation through Java.
- Experience in Web Application development using **Java, Servlets** and **JSPs**.
- Good understanding of developing front-end using **HTML 5, CSS 3** and **JavaScript**.
- Experience in developing applications using **RESTful** Web services.
- Strong experience with Version Control like SVN, **Github**.
- Good Knowledge of **SDLC, Scrum** framework and Test Driven Development (**TDD**).
- Experience in using **Agile** principles, practices and methodologies and Design Patterns.

## TECHNICAL SKILLS

- **Languages:** C++, Java, JavaScript, Python
- **Frameworks:** HTML 5, CSS 3, XML, jQuery, Angular JS, REST, JSP, Servlet, JUnit
- **Database Software:** MySQL, SQL Developer Tool, MS SQL Server
- **Packages and Tools:** SVN, Eclipse, Github, Jenkins, JIRA, WAMP Server

## EDUCATION

### Masters in Computer Engineering

University of Houston, Texas

GPA: 3.4

May 2016

### Bachelors in Computer Science

Jawaharlal Nehru Technological University, Hyderabad, India

GPA: 3.6

May 2013

**Courses:** Data Structures and Algorithms, Object Oriented Programming, Software Design, Cloud Computing, Operating Systems, Business Applications in Data Base Systems and Computer Architecture.

## EXPERIENCE

### Web Application Developer – University of Houston

Dec 14' - May 16'

**Project: Course Registration website** (Cullen College of Engineering)

- Developed Course Registration Website where students can enroll in the courses online.
- Designed front-end of the web pages using **HTML 5, CSS 3** and **JavaScript**.
- Enforced style standards using CSS and performed JavaScript login form validations.
- Designed and created Unit test cases with **JUnit** and developed Java classes.
- Hands-on experience in developing programs using **Java Collections** framework.
- Experience developing programs using Object Oriented Principles (**OOP**) in Java.
- Created physical and logical structure of the database in **MS SQL**.
- Working knowledge of stored procedures, joins and normalization using **SQL developer**.
- Used **Jenkins** for continuous integration and automated testing.
- Managed version control using **GitHub** and attended weekly **scrum** meetings.
- Used **Agile** Methodologies and practices to implement the project.

### Project: Tutoring Application

- Developed online tutoring application which has different login views for Tutors, Students and Admin.
- Applied new features of **HTML 5** and **CSS 3** and improved page load time of website.
- Designed and built signup and login pages using Object Oriented (OO) **JavaScript**.
- Designed and created UML diagrams to represent Object Oriented Design.
- Good knowledge of writing programs using Interfaces, abstract classes and Inheritance in **Java**.
- Hands on experience developing multithreading applications in Java.
- Created **MySQL** database to store details of tutors and students.
- Experience working with **Agile** test driven development and pair programming.
- Used **JIRA** and its components for issue tracking and project management.
- Worked on **Jenkins** for project integration and to maintain the code base intact.

**Software Developer – Defense Research and Development Organization, Hyderabad**

**Jan '13 - Jun '13**

### Project: Website for the Science & Technology Event for School Children

- Developed a website that contains the information about the past and upcoming events and registration links.
- Created User Interface of website using **HTML 5** and **CSS 3**.
- Gained knowledge of using **RESTful** services and making calls in **Java**.
- Expertise in Object Oriented Programming using polymorphism and encapsulation.
- Designed schema and created **MySQL** database to store participant details.
- Created prepared statements and callable statements using **JDBC**.
- Knowledge of Software Development Life Cycle work flow and **Agile** methodologies.
- Performed software versioning and revision control using **SVN**.

**RELATED PROJECTS** (<https://github.com/sushmags/myprojects>)

### MIPS Simulator

- Developed an application that calculates the number of clock required to execute each stage of an 8-stage MIPS pipeline while keeping track of stall cycles.
- Developed different **Java** classes for the pipeline stages which take input from a text file with instruction set using Inheritance, method overriding.
- Effectively handled branch control statements to calculate stall cycles and generated timing diagram.
- Hands-on experience with Core Java Collections framework and Exception Handling.

### Currency Exchange Rate Notification System

- Developed an application that notifies the currency broker company when a currency pair rate reaches the target rate through email and text messages.
- Implemented User Interface using **HTML 5**, **CSS** and **JavaScript** where broker can check the exchange rate.
- Designed application complying to design principles by using **Agile** Test First Development in **Java**.
- Parsed the XML on <http://rates.fxcm.com/RatesXML> and stored the currency values in **XML** tags.
- Implemented the project using Observer Design Pattern to create objects and maintain dependents.

### Twitter Data Analysis in AWS (AWS/Apache Pig/EC2/S3)

- Analyzed large datasets containing Twitter tweets in Amazon Web Services (AWS).
- Queried data with Apache Pig both locally as well as using MapReduce in grunt shell.

### Offline Web Application

- Developed a web application that stores the data on the device when there is no internet connectivity or Wi-Fi signals are low and sends data gaining connectivity.

- Performed testing using **JUnit** and integrated unit tests for **JavaScript** methods.