

## GRADUATE RESEARCH ASSISTANT

### Summary

To obtain an Internship or a Full- Time position as a software developer. Outstanding Java Developer with Exceptional Software Engineering Experience and a successful track record of around 3 years as an Intern and Graduate Research Assistant. A goal-driven Developer with comprehensive understanding of various software development approaches such as Waterfall, Iterative, Spiral, View and Agile Frameworks. Am a results-oriented Designer who is skilled in Object-Oriented Analysis and Design using Unified Modeling Language. Possess extensive programming capabilities in utilizing IDEs such as Eclipse 3.2/3.3/3.5, Eclipse RCP, My Eclipse 6.0 and Net Beans. Highly skilled in Unit Testing with JUnit 3.8/4.0, defect tracking with HP Quality Center, performance testing with JMeter and automated testing with Test Driven Development (TDD) in Extreme Programming Model. Experienced utilizing various servers including Apache Tomcat 5.5/6.0, IBM WebSphere 5.1/6.0, Adobe JRUN 3.0/4.0 and RedHat 7.2. Experienced with utilizing multiple RDBMS products such as IBM DB2, Oracle 9i/10g, MS Access, MS SQL Server and MySQL.

### Highlights

C, C++, JAVA, Data Structures XHTML, JavaScript, XML, CSS, PHP, Ruby Operating Systems : LINUX (Fedora, RedHat, Ubuntu), WINDOWS, Android Other tools : MS Office, Adobe Dream Weaver CS5, Word Press, Adobe Photoshop Databases : MY SQL, MS Access

### Accomplishments

- JSP, HTML, CSS.
- Projects Masters Project Formal verification of cryptographic protocols in the computational model (on going) Description: Ensuring secure communication is one of the most important challenges in computer science.
- Cryptographic protocols are a critical element in providing secure communication.
- As my Masters Project I am building an automated formal method tool that can verify large cryptographic protocols in the computational model.
- I am proving correctness of Diffie-Helman and Station-To-Station protocols in Coq, an interactive theorem- prover.
- I am also implementing a FOLD mechanism in Flex & yacc which folds protocols to optimise the proof of theorems.
- Environment: coq, Flex & yacc Major Project Android Free Messaging App using KSOAP Description: This application is mainly intended to send messages from android mobile.
- Here user can send any number of messages for free and n number of users at a time with a maximum character constrain.
- These messages sent using Wi-Fi so there is no need to bother about service provider's costs.
- This application is having facilities like sending group messages, customized messages.
- Responsibilities: As a team leader organised work among team members.
- Integrated web services through KSOAP in order to send the message to an intended user.
- Designed user Interface using xml.
- Developed Junit test cases for all possible user test scenarios.
- Environment: Android SDK, Ksoap SQLite.
- Minor Project Image Based Authentication Description: Phishing is an attempt by an individual or a group to thief personal confidential information such as passwords, credit card information etc from unsuspecting victims for identity theft, financial gain and other fraudulent activities.
- This project shows a way of providing security from phishing websites in which Image is used to provide authentication.
- It uses visual cryptography tool to divide a picture into transparencies.
- When transparencies are laid on one another original picture is displayed which represents the authentication of a website.
- Responsibilities: As a team leader organised work among team members.
- Implemented Visual Cryptography tool which can encrypt and decrypt an image.
- Implemented text to image conversion mechanism.
- Created a demo website which can be used to demonstrate the project.
- Environment: J2EE, JSP, Ant, MySQL, JDBC.

### Experience

#### Graduate Research Assistant

September 2015 to Current University Of San Francisco

- I was responsible for development of SPARC Request portal.
- SPARC Request (Services, Pricing, & Application for Research Center) is a web-based research management system that provides a central portal (one-stop shop) to researchers and their study teams to browse for research services and resources.
- Responsibilities also include creating projects for School of Medicine using RedHat Responsibilities: Installed SPARC Request application using Capistrano.
- Developed and tested the application with unique testing methodologies.
- Played an active role by interacting and working with different departments for testing services under their level in the application.
- Developed JUnit Test cases for Unit Test cases and as well as System and User test scenarios.
- Managed a fulfillment server for SPARC Request.
- Environment: ruby on rails, RedHat 7.2, MySQL.

#### Graduate Research Assistant

October 2014 to August 2015 University Of San Francisco

- University of Missouri collaborated in an innovative research that relies heavily on cyber infrastructure.

- CC-NIE grant was proposed to support this research.
- CC-NIE Integration is Creation of an Institutional Cyberinfrastructure to Enable Researcher-Oriented, Federated Environment for Large, Collaborative Science Projects.
- Responsibilities: Worked under Professor Gordon Springer.
- Managed entitlement server for CC-NIE Integration which provides researchers at the University of Missouri with an unimpeded access to the national Internet2 100G network.
- Designed a website for CC-NIE under guidance of Dr Gordon Springer.
- Developed HTML based forms, validations using JavaScript.
- Environment: C++, Java, PHP, Html, Bootstrap, MySQL.

#### Jr. Java Developer

June 2013 to August 2014 Peraton i¼ Sacramento

- Aapathi technologies is a professional web application development and mobile application development company based in Hyderabad, India.
- Responsibilities: Played an active role in the team by interacting with welfare business analyst/program specialists and converted business requirements into system requirements.
- Conducted Design reviews and Technical reviews with other project members.
- Implemented Services using Core Java.
- Developed HTML based forms, validations using JavaScript.
- Involved in Unit Testing, User Acceptance Testing and Bug Fixing.
- Environment: Java 1.4, J2EE, Eclipse SDK 3.3.2, JQuery, Html, CSS, JSP, JDBC, MySQL and Tomcat.

#### Web Developer

August 2012 to May 2013 1-800-Flowers.Com, Inc.

- With a team of 5 members developed a website for Vignan's Institute of Technology & Aeronautical Engineering.
- Vignan's Institute is affiliated by JNTU located in Hyderabad, India.
- Responsibilities:.
- Created a website which includes student and faculty logins.
- Managed the website and its bugs for a year after website was developed.

#### Education

Masters of Science : Computer Science , July 2016 University of Missouri i¼ State , Columbia GPA: GPA: 3.2/4.0 Computer Science GPA: 3.2/4.0

Bachelor of Technology : Computer Science , May 2014 Vignan's Institute of Technology & Aeronautical Engineering i¼ City , India GPA: GPA: 3.78/4.0 Computer Science GPA: 3.78/4.0

#### Skills

Adobe Dream Weaver, Adobe Photoshop, application development, business analyst, C, C++, CSS, Databases, Eclipse, XML, forms, HTML, PHP, J2EE, Java, Java 1.4, JSP, JavaScript, JDBC, JQuery, LINUX, access, MS Access, MS Office, WINDOWS, Word, MySQL, MY SQL, network, Operating Systems, Press, Pricing, RedHat, RedHat 7.2, Research, Researcher, SPARC, Tomcat, unique, web application development, website, XHTML