

SHRAVAN KUMAR SARAB

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Actively Seeking a Full-Time Opportunity in the field of Computer Sciences or Software Development.

Education

George Mason University, Fairfax, Virginia:

May 2017

Master of Science, Computer Science

Major GPA: 3.59 out of 4

Coursework:	Graph Algorithms	Advanced Database Management
	Software Engineering for WWW	Secure Software Design
	Object Oriented Software Specification	Database Management Systems
	Software Requirement Analysis and Specification	Decision Guidance Systems
	Computer Communications and Networking (TCP/IP)	Analysis of Algorithms

Jawaharlal Nehru Technological University, Hyderabad, India:

May 2014

Bachelor of Technology, Information Technology

CGPA: 3.6 out of 4

Work Experience

Research Assistant, School of Business, George Mason University, Fairfax, VA

April 2016- Present

- Working with Python for Web Scraping and then extracting the results to be stored into an Oracle Database.
- Working with SQL for developing reports obtained from the results extracted by the Python Script.

Assistant Systems Engineer, Tata Consultancy Services, Hyderabad, India

October 2014 – June 2015

- Worked on PL/SQL, Shell Scripting, Java, HTML as a Full Stack Developer.
- Developed modules in PL/SQL related to Portal Data Management which allows them to track their usage, Net Monthly bill etc. for Company of Telecommunications in Macau Project.
- Agile Methodology was used for the Project for constantly keeping the customer updated with the operations of the project.
- Tested different modules of the project which were developed in Java using Unit testing, Black Box Testing for error detection.

Assistant Faculty, Tata Consultancy Services, Hyderabad, India

June 2014 – September 2014

- Worked as an Assistant Faculty for Business Intelligence and Performance Modelling Course.
- Interacted with students for maximizing effectiveness of the course and developing reports for data analysis.
- Helped the students in understanding the concepts of SQL, Java, Unix, Informatica, BusinessObjects.

Technical skills and expertise

Programming Languages	:	C, C++, Java, Shell Scripting, Python.
Databases	:	SQL, MySQL, T-SQL, PL/SQL, MongoDB, Neo4j, JSONiq, DGAL, SQLite
Web Designing	:	HTML5, CSS3, XHTML, JavaScript, AngularJS, nodeJS, JSP, XML, JUnit, JSON, AJAX, jQuery, Servlets, Tiles, Struts, Spring, Hibernate, Bootstrap, SOAP, REST.
Development tools	:	Informatica, Datastage, Ab Initio, OPL Studio, MS Office, Eclipse, Oracle SQL Developer, NetBeans, BusinessObjects DashBoard

Educational Projects

Course Recommendation System

March 2016

- Developed a Recommendation System which helps the students to choose the courses for future semesters by using JSONiq for backend programming.
- IBM, OPL studio was used to optimize the result by calculating various utility factors and optimizing those constraints.

Developing a Secure game of Quartetto

September 2016

- Developed a new game called Quartetto which can be played between two players at a time. We also implemented multiplayer-multiple instance feature.
- JSPs and Servlets were used for the business requirements of the project and Oracle SQL Database was used for storing the information. AJAX calls and JSONiq were also used to make the display more efficient.

Secure Message Transfer

August 2016

- Developed an application which will securely transmit the data from one point to another. All Seven Layers of TCP were addressed and issues relating to each layer were addressed.
- Java was used in order to handle the data issues and the algorithms which are required to transmit the data from one layer to another.

Scope Handling in Requirement Engineering.

September 2016

- Learned about how to handle scope in a project at Requirements Phase. Developed a tool which would quantify the Scope of the project.
- The tool also analyzes the requirements and classifies them as Valid/Invalid.
- HTML, JavaScript, Bootstrap and JSON were used in order to develop a tool.

Student Survey (Web Application)

February 2016

- Implemented an MVC framework for deploying an application which allows the students to fill the survey form and store the data. The application has a feature that displays all the surveyed entries.
- Many variants of this application were developed using different frameworks, databases and web designing tools.

Face Recognition for Automated Classroom Attendance

January 2014

- Developed an application which automates the process of attendance, which effectively takes a snapshot of the classroom and uses a coded algorithm and then compares the faces obtained from the snapshot with database.
- Implemented a GUI with JSP and Oracle SQL as the Database. Used MATLAB for face recognition.

Statistical Entity Extraction from Web

September 2013

- Developed an application called iKnoweb, an interactive knowledge mining framework, which collaborates with the end users to connect the extracted knowledge pieces mined from Web and builds an accurate entity knowledge web.
- Implemented a GUI with JSP and used Java for extracting information. User validations were done using JavaScript.

Achievements

- Certified Java SE 6 Programmer by Oracle.
- Received Star of the Learners Group, Champion of ILP and LIREL Honor awards from Tata Consultancy Services.