RALSTON RATIN KUMAR.R

SOFTWARE ENGINEER

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EXPERIENCE

SOFTWARE ENGINEER, FUJI XEROX, SINGAPORE
(Meteorite Informatics Pte.Ltd) April 2015 - Present

Auto Answer:

An application to support information sharing/retrieval and "question answering" by analyzing the contents of knowledge sources using text extraction, text normalization, topic estimation and machine learning through NLP engine.

- Developed modules for training the historical data and predicting the results.
- Improved performance using multithreading (60% reduction of time).
- Memory optimization using Iterative Batch Processing for processing huge csv dataset of over 100,000 records with 5-10 attributes.
- Analyzed performance bottlenecks, heap dumps, track memory leaks and monitor garbage collection for performance tuning.
- Designed a queuing system and pipelined the modules to read / write memory instead of files.
- Implemented Batch Processing module for all the modules to interact and run in a specified manner.
- Followed best code quality practices, peer reviews, refactoring and code coverage.

NLGuide:

- Currently involved in developing a full text search system to convert natural language to query language in java using NLP and Solr Search.

Environment: J2EE, Maven, Sonar, Jacoco, Spring MVC, REST API, JSP, openNLP, visualVM, JUnit, SnakeYaml, Solr, Antlr, log4j, Javadocs, Tomcat.

WEB DEVELOPER INTERN, COASSETS, SINGAPORE
May 2014- July 2014

Crowd Funding Business networking platform that enables stakeholders to connect.

Responsibilities:

- Constructed a model to predict user preference based on user profile and user's interaction history by weighing every activities of user.
- Created Recommender system (content-based filtering approach) based on the above model to suggest related news and products.
- Built a reusable Django-python app for social networking feature.

Environment: Python Django, Bootstrap, Ajax, jQuery, JavaScript, HTML/CSS, Pivotal Tracker, Agile SCRUM.

SYSTEMS ENGINEER, INFOSYS LIMITED, INDIA
June 2011- Dec 2013

Responsibilities:

- Worked on shopping cart, anonymous/Guest checkout, and email cart functionalities of an E-commerce site bilka.dk.
- Order Confirmation functionality which involved data processing and PDF manipulations to send customized email with billing report.
- Added GLS as a delivery option in checkout flow to display nearby stores based on the postal code entered using GLS Web Service.
- Consumed "Australian Post" RESTful web service to validate the address of the user.
- *Compliance Anchor*: handled the whole Development Center (US Major HealthCare Client) for its security compliance related activities.
- *Enterprise Java Trainee (CGPA: 4.71/5):* Hands-on Training in Oops, RDBMS, Data Structures, Software Engineering, Core and Enterprise java, to expertise in the production development.

Environment: J2EE, ORM-JPA, Spring MVC, HTML/CSS, Hybris, Ajax, JQuery, JavaScript.

EDUCATION

Master of Computing (Computer Science)
(Jan'14 – Feb'15)
National University of Singapore
CGPA - 3.5/5
Web Security,
Cloud Computing,
Business Intelligence Systems,
Distributed Databases,
Multimedia,
Information Security Policy,
Systems Security.

Bachelor of Technology (Information Technology)
(Aug'07 – May'11)
Anna University, India
First Class with Distinction -85%

SKILLS

Programming :
J2EE, Python, Bash Shell.

Web Technologies:
Spring MVC, JSF, JSP, JPA, EJB, Python Django, HTML5/CSS3, JavaScript, jQuery, REST.

Databases:
Oracle, MySQL.

Tools and Framework:
Eclipse IDE, IntelliJ Idea, JUnit, Maven, JVisualVM, Jacoco, Bootstrap, SONAR Qube.

Versioning tools:
Git , SVN

PUBLICATIONS

Augmented Reality and Sixth Sense Based Artificial Speaking Aid for the Mute
(JOURNAL OF APPLIED GLOBAL RESEARCH (JAGR), VOLUME 6, ISSUE 17 (SUMMER 2013).)

ACHIEVEMENTS

Department First Rank for the B-Tech Information Technology Batch (2007-2011).

Star Certified Infoscion in Leadership and Soft skill (Infosys Leadership Institute).

Anna University Rank holder.