Arjun Ankathatti Chandrashekara

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SUMMARY

Full stack software developer with 4 years of industrial experience in design, development, and implementation of enterprise web applications using JAVA/J2EE framework and object-oriented programming. Excellent technical, analytical, problem-solving skills with strict attention to detail and ability to work independently or within a team environment.

EDUCATION

University of Missouri   Columbia, Missouri
Master of Science in Computer Science, **GPA 3.8/4.0**   Graduation: **December 2018**

WORK EXPERIENCE

Research Assistant, *Networking and Multimedia Lab***,** University of Missouri   **August 2016 – Present**

Multi-Cloud Resource Recommender
- Design and development of web application using Struts2 and Tiles framework
- Coded JDBC calls in the DAO classes to access the Oracle database tables
- Worked with 3rd party API's such as Amazon AWS Java SDK
- Published paper "Recommending Resources to Cloud Applications based on Custom Templates Composition" in the ACM Computing Frontiers Conference, 2017

AWS EMR Cluster
- Automated the deployment of EMR cluster to support data science class which saved operational costs by 70%
- Created Bootstrap actions to install Jupyter Notebook server and PySpark kernel on EMR cluster using Boto3
- Automated the generation of EC2 Security Groups with firewall exception and SSH Key Pair
- Used CloudWatch to monitor metrics, set up billing alerts and alarms that further reduced the costs by 30%

Database Programmer Analyst, *MU Division of IT*, Columbia, Missouri   **January 2017 – June 2017**
- Designed and developed .NET based solution using C#, ASP.Net, ASP.NET MVC
- Built utility class libraries and created product critical stored procedure in SQL Server
- Developed responsive web UI using Bootstrap, CSS which increased website usability by 30%

System Engineer, *Infosys***,** Bangalore, India   **October 2014 – July 2016**
- Implemented business logic in service layer classes and created model classes
- Developed UI in Spring MVC framework using JSP, HTML, CSS, JavaScript, JQuery
- Proposed Pentaho Spoon ETL tool for data migration and transformation, which saved 60% of the effort and time
- Shared knowledge of tools and techniques with the wider team, both developers and non-developers

PERSONAL PROJECTS

Neuroscience Gateway (CyNeuro.org)
- Designed and developed the gateway portal using Laravel PHP, AngularJS, Bootstrap4
- Embeddable Chatbot widget on the portal using JavaScript and JQuery
- Created RESTful API endpoints using Python and FLASK micro framework
- Managing Linux/Unix application servers and basic system administration

Budget – Expense Manger
- Developed reusable user interface components and implemented them with Redux
- Compiled JSX with babel presets, bundled the modules with webpack, and tested the apps with Jest
- Setup authentication, user accounts, routing, form validation and configured the DB storage

Online tic-tac-toe game
- Real-time two-way communication between client and server using Socket.IO and Node.js
- DOM manipulation to update game state using JQuery based on the events triggered by the Server
- Implemented a game room concept which enables users to join the game based on unique game ID

TECHNICAL SKILLS

- Programming Languages   : Java, Python, PHP
- Web & scripting   : HTML, JavaScript, JQuery, Bootstrap, CSS, AJAX, JSON
- Frameworks & Libraries   : Struts2, Flask, React.js, Socket.IO, Boto3, node.js
- Database   : SQL Server, Oracle 11g, MySQL
- Software Tools and others   : Git, SVN, Gulp, Sublime, Eclipse
- AWS   : EC2, EMR, ELB, Lambda, RDS, IAM, S3, CloudWatch