Amitha Raghava Raju

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Dedicated and motivated software engineer seeking a full time opportunity in a dynamic work environment to enhance my skill set and achieve my career goals.

EDUCATION

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC, USA   Expected May, 2021
Master of Computer Science, 4.0 / 4.0

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY , Bangalore, KA, INDIA   June, 2015
 B.E in Telecommunication Engineering, 81%

RELEVANT COURSEWORK: Algorithm, DevOps, Automated Learning and Data Analysis, Software Engineering, Algorithms for Business Intelligence, Database Management Systems, Deep Neural Networks, Natural Language Processing.

PROFESSIONAL EXPERIENCE

SOCIETE GENERALE GLOBAL SOLUTION CENTER, Bangalore, KA, INDIA   August 2015 – August 2019
SPECIALIST SOFTWARE ENGINEER
- Developed User Interface using Angular, ASP.NET Web API, JavaScript, Web Services and Node.js to display transaction data reported to global regulators (MIFID, MMTR, DTCC).
- Used various software design patterns such as MVC, singleton, factory for designing efficient software solutions.
- Implemented OAuth2 and OpenID Connect based on authentication performed by an authorization server.
- Optimized Oracle queries, procedures, functions, sequences, indexing to maintain huge quantities of data and improve the application performance.
- Experience with props and state management in React, Webcomponents and implemented Statistical dashboard for Post Trade Transparency deals.
- Created DAO classes to implement CRUD operations by using JDBC transactions.
- Experience with Angular Directives, Dependency Injection, Services, Routing, pipes, Animations, Forms, AOT, Lazy Loading, RXJS.
- Involved in various phases of Software Development Life Cycle (SDLC) using Agile Methodology and followed Scrum sessions.
- Built a tax computation engine using Angular and Spring Boot for SG-SYDNEY and SG-DUBAI perimeter.
- Hands on knowledge of using build tools, Gulp, Grunt, NPM, Webpack, REST web services for package management and installation.
- Prepared technical documents and followed Test Driven Development by writing test cases using Karma and Jasmine.
- Good knowledge of Amazon Web Services (AWS) and Continuous Integration with Jenkins.
- Participated in ML Hackathon: ETF and Bond Trading, to automate trade selection at SGGSC.

INNOVATIVE EDUCATIONAL COMPUTING LABORATORY - NCSU, Raleigh, NC, USA   May 2020 - Present
GRADUATE RESEARCH ASSISTANT
- Implement a scalable web application using MySQL, SpringBoot and Angular to build Mathematical Tutor based on AI Expert Production System.
- Used Apache Ant build tool to generate an executable jar file and used Java dynamic class loading and reflections to extract and load user specific functionalities for custom tutors.
- Created tutor interfaces using the Cognitive Tutor Authoring Tools (CTAT) Html editor and integrated the html file into the WebAPLUS application.
- Implemented service side application using Java Servlet, JSP and implemented Model View Controller Structure.
- Experienced in version control tools GIT, bash, Terminal and various bug tracking tools like JIRA, GIT project board.
- Used POSTMAN and Swagger UI as visual documentation for back-end implementation and client-side consumption.
- Experience working with Log4j, I18N and Implemented file hierarchy and logging functionality at user-level for each tutor.
- Refactored code to improve its maintenance and extensibility and reduce its complexity.
- Implemented relational database (MySQL) to store student account information, track cognitive progress and quiz details.

TECHNICAL SKILLS

Java, Spring Boot, JavaScript, TypeScript, C#, ASP.NET WebAPI, Angular, ReactJS, Oracle DB, Nodejs, SQL, Python, R, PHP, Linux, Web Services, Microservices, AWS (Amazon Web Services), Docker, Kubernetes, MongoDB, Tensorflow, Keras, Karma, Jasmine, REST APIs, UX AdobeXD, Jenkins.

PROJECT EXPERIENCE

SOFTWARE DEVELOPMENT
- Developed Hospital Dashboard Application to effectively aid and process patients using Java and Oracle DB.
- Created a Recourse application to facilitate easy course selection for undergraduate students using Angular, SpringBoot and MySQL.
- Worked on Cloud Provisioning (Digital Ocean and Amazon Web Services) - provisions two servers across different platforms.

AWARDS & RECOGNITIONS

- Star of the Quarter Q4(2017) for Mifid, Spot Award for Mifid, Portfolio Reconciliation, Replay and SG dashboard.
- Secretary of IETE (The Institute of Electronics and Telecommunications Engineers) forum and Duke of Edinburgh award.

PUBLICATIONS

- Published research paper on "Predicting Fraud in Electronic Commerce: Fraud Detection Techniques in E-Commerce" IJCA, 2017.
- Published research paper on "A Machine Learning Approach to Forecast Bitcoin Prices" IJCA, 2018.