AMITHA RAGHAVA RAJU

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Dedicated and motivated software developer seeking a fulltime opportunity in a dynamic work environment to enhance my skill set

EDUCATION

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC, USA   Expected Dec, 2020
Master of Computer Science, 3.99 / 4.0

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY , Bangalore, KA, INDIA   June, 2015
B.E in Telecommunication Engineering, 81%
Secretary of the Institute of Electronics & Telecommunication Engineers Student Forum

RELEVANT COURSEWORK: Algorithm, Automated Learning and Data Analysis, 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 and NodeJs to present transaction data reported to global regulators (MIFID, MMTR, DTCC).
- Wrote optimum Oracle queries, procedures, functions, sequences to maintain huge quantities of data and improve the application performance by decreasing latency and increasing throughput.
- Prepared technical documents and followed Test Driven Development by writing test cases using Karma and Jasmine.
- Implemented monitoring and statistical dashboard using Reactjs, Webcomponents, NodeJs, WebAPI and Oracle to represent Post Trade Transparency (PTT) deals in near real time and developed reusable custom selectors components.
- Built a tax computation engine using Angular, ASP.NET Web API for SG-SYDNEY and SG-DUBAI perimeter
- 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
- Implemented relational database such as MySQL to store student account information and project details.
- Developed server side application to interact with database using Spring Boot and Hibernate.
- Developed Single Page Applications (SPA) using Angular 2, Typescript, HTML5, CSS3, and Bootstrap.
- Used GIT for version control tool for merging branches and used Sourcetree to solve conflicts.
- Implemented Router to enable navigation from one component to another.
- Created Services to consume REST API's and to communicate between components using Dependency Injection provided by Angular.
- Implemented HTTP requests using RxJS Observable library to handle multiple values over time.
- Used Postman to test the RESTful API for HTTP requests such as GET, POST, and PUT.

TECHNICAL SKILLS

Java, Spring Boot, JavaScript , TypeScript, Angular, Reactjs, Oracle DB, Nodejs, SQL, Python, R Language, Tensorflow, Keras, C#,, ASP.NET WebAPI, Karma, Jasmine, GIT, IIS, OAuth2.0, REST API, Visual Studio .Net, Typescript, Webcomponents, Agile Methodology, Software Development Lifecycle.

PROJECT EXPERIENCE

Machine Learning – Python
- Achieved 75% accuracy on soybean leaf-wilt image classification using transfer learning and hyper-parameter tuning.
- Built Recurrent Neural Networks (GRU & LSTM) for text generation using text and character prediction strategies.
- Implemented Siamese Neural Network Architecture to identify questions with similar intent.
- Developed Machine Learning auto-summarization model and implement Sentiment Analysis model using Naïve Bayes.
- Built machine learning model to predict likelihood of term deposit subscribers with above 70% accuracy.

Java – Oracle DB
- Development Hospital Dashboard Application to effectively aid and process patients using Java and Oracle DB.

Research Papers
- 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.