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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, Automated Learning and Data Analysis, Software Engineering, Algorithms for Business Intelligence, Database Management Systems, Deep Neural Networks, Natural Language Processing, Statistics.

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 present transaction data reported to global regulators (MIFID, MMTR, DTCC).
- Optimized Oracle queries, procedures, functions, sequences, indexing to maintain huge quantities of data and improve the application performance by decreasing latency and increasing throughput.
- Setup OAuth2 authentication and authorization.
- Prepared technical documents and followed Test Driven Development by writing test cases using Karma and Jasmine.
- Implemented monitoring and statistical dashboard using React, 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

- Implement an end-to-end web application using Angular, SpringBoot, MySQL, Nodejs, Jess, Rete Algorithm and TypeScript to build Mathematical Equation tutor and make it scalable.
- Used GIT for version control tools for merging branches and used sourcetree to solve conflicts.
- Created generic CRUD API to enable dynamic crud operations.
- Created jar files to integrate and load user specific functionalities for custom tutors.
- Implemented logging functionality at user-level for each tutor.
- Created tutor interfaces using the CTAT Html editor and integrated the generated html file into the web application.
- Implemented relational database (MySQL) to store student account information and project details.

TECHNICAL SKILLS

Java, Spring Boot, JavaScript, TypeScript, Angular, Reactjs, Oracle DB, Nodejs, SQL, Python, R, Web Services, Microservices, Spring Cloud, AWS (Amazon Web Services), Tensorflow, Keras, C#, ASP.NET WebAPI, Karma, Jasmine, GIT, IIS, OAuth2.0, REST API, Visual Studio .Net, Typescript, Webcomponents, Agile Methodology, Software Development Lifecycle, Jira Dashboard.

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 SI (International System of Units) units chrome extension to provide relevant conversion on selection of text.

MACHINE LEARNING

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

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.