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SHIVANI TRIPATHI

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OBJECTIVES:

Software Engineer with 2 years of experience. An excellent team player with a positive attitude. Seeking to leverage my professional and technical expertise in Software Development domains.

TECHNICAL SKILLS:

- **Languages:** Java (Advance), C++, C, Python, AngularJS, ReactJS, React-Redux, NodeJS, SQL
- **Framework:** REST, AWS Lambda, RESTful APIs, HTML5, CSS3, JavaScript ES6, TypeScript, Bootstrap
- **Unit Testing:** Junit Mockito, Jasmine, Karma
- **Platforms & Tools:** Git, JIRA, Jenkins
- **Databases:** Oracle 10/11g, MySQL, MongoDB
- **API Development:** REST APIs in Spring
- **Operating Systems:** Windows, Linux
- **Packages:** Eclipse, IntelliJ
- **Coursework:** Programming for Web, Algorithms, Data Structures, Operating Systems, Machine Learning, Data Mining, Embedded Programing and Computer Architecture
- **Cloud:** AWS EC2

EMPLOYMENT/WORK EXPERIENCE

Senior Technical Associate (Software Development Engineer) — **BA Continuum India – Subs of Bank of America, Chennai (India)** — **June 2017 – Mar 2019**

I have around 2 years of experience working with **Global Mobility-Centralised Resources Tool** Team (part of **GHRT**) in Bank of America.

The Global Mobility team deals with the mobility population in Bank of America. I handled two web applications – IAS Expenses and IAS Taxes. Our applications were initially designed in Struts web framework and JavaScript. I worked on designing and implementing both the applications in Spring Batch Framework (Spring Batch) from scratch and used Angular 6 for Client-side rendering.
My role is briefly summarized below:

- Re-Built entire application from scratch.
- Redesigned the Backend and used Spring Batch for client-server communication. To store employee expense detail, I used Oracle Relational Database.
- Scheduled cron-job to run every week.
- Developed RESTful web services, implemented API functionality and UI features using Java.
- Used Angular 6 for Client-side rendering and choose Typescript to write frontend code.
- Used Junit Mockito to write UT's and managed code and branch coverage above 95%.
- Used Google Guava Library for list and map operation. Lombok for getter and setter method in POJO's code.
- Debugged root-cause of issues, an insight to determine priorities, schedule work and work with cross-team to offer solution in timely manner

Freelance, Software Development Engineer: **Mar 2020 –Aug 2020**

- **React Powered Web Application for Restaurant** (): I created a React based Single Page Application for the Restaurant. I used JavaScript ES6 for developing React application. I used JSX with React to express react elements using HTML like syntax. I introduced React strap for Bootstrap 4-based responsive UI design in which I used various components of React strap in my application like Nav Bar, Card etc. I made use of the Card component to display a list of dishes and detailed information. I also made use of the React Component lifecycle. I divided my application into multiple container components like Menu Components, Main Components, Dish detail Component etc. I used react-router to navigate among views of various components. I used Flux architecture and Redux to develop React-Redux powered application. I used REST API for client-server communication.

EDUCATION

Vellore Institute of Technology – (VIT Vellore) **May'2017**
Bachelor of Technology in Information Technology, GPA: 8.46/10.00

Kamla Nehru Institute of Child Education **May'2013**
XII from K.N.I.C.E., Sultanpur, CBSE with First class. (75.60%)

ACADEMIC PROJECTS

- **IOT-Vehicle Detection for Toll Collection using Raspberry Pi Minicomputer** (**Jun – Nov 2016**): Used PIR Motion Sensor and Raspberry PI camera to detect vehicle and generate bill.
  The sensor here operates to activate the camera at a particular distance to universalize the billing algorithm for every category of vehicle. This in turn also ensures the power efficiency of the system because the camera doesn't need to be kept on whole time. The camera used here is a Raspberry-pi installed camera which detects the category of vehicle by calculating the dimension and in turn generate the bill. – at **Vellore Institute of Technology, Vellore**
  Technology used: Python, Google Firebase, MongoDB, Android Studio

- **Web Application of School Management System** (**Jul – Nov 2015**)**:** The aim was to develop a School Management System that maintains the data of all the students and teachers in database and it provides login portals for student, faculty members and student's parent. I used Oracle Database to store information and used Oracle Data Modeler to design the database and data modeling. The front end was designed in HTML/CSS and used PHP to connect to Database. – at **Vellore Institute of Technology, Vellore**
  Technology used: Oracle SQL Data Modeler and SQL, PHP, HTML, CSS

- **Implemented K-means Cluster Analysis Algorithm** (**Sept – Oct 2015**): K-means algorithm is implemented in Java. It takes data from user and form clusters based on given number of clusters required by user. – at **Vellore Institute of Technology, Vellore**
  Technology used: MATLAB, Java

PUBLICATION

- **Cloud with IOT in Smart Parking:** The notion of emerging smart cities integrated with internet of things and clouds to make data and service available everywhere helps to create a boon artefact which makes human life very easy. Regarding smart cities flow of data after its generation and its manipulation to get a desired result is most important. This need can be easily fulfilled by the use of Internet of Things with clouds to perform Data Generation and Information Exchange (DGIE).
  Publisher: International Journal in Innovative Research in Management, Engineering and Technology
  Publication URL: https://www.researchgate.net/publication/323253794_cloud_with_IoT_in_smart_parking

ADDITIONAL EXPERIENCE

- **Facebook Hacker Cup 2020:** Participated in Facebook hacker cup, a coding competition organized by Facebook and secured 2869 rank worldwide.
- **VIT Animation Club** (Aug 2015 – Dec 2016): The objective of this club is to promote Animation, foreign and domestic, as a viable art form and to expose the general public to this Art form.