Madhura Satao

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SKILLS

- **Languages -** Java**,** Python, SQL, C, Typescript, Javascript, R
- **Database** - MySQL, PostgreSQL, MongoDB(NoSQL), ElasticSearch
- **Cloud** - Google Cloud Platform, IBM Cloud Engine
- **Dev Technologies** - J2EE, Spring Boot, Angular, React js, Node js, Django, Linux, Hadoop, Pyspark
- **DevOps**- Git, Jenkins, Ansible, Docker, Maven, Jira

EXPERIENCE

Software Engineer, *Pune, India*
HSBC Software Development *September 2020-June 2022*

- **UI Design**- Spearheaded research and implementation of user experience designs using **Angular, AG-Grid** for a highly configurable app catering data requests from more than **2000 users**.
- **Centralized dashboard**- Improved operation workflow of data requests by automating request submission and three-level approval control procedures that improved process time by **60%**. Programmed **REST API** and **Microservices** solution in **Java, Spring boot, ELK, and Angular**
- **XML Analysis** - Successfully implemented XML visualizer and comparator to enable faster and better analysis of data with intuitive custom filtering and conversion to CSV formats. Used **Spring Boot, Hibernate and Thymeleaf** stack
- **GIT Automation**- Achieved automation of **GIT** operations to keep business critical configuration files across environments in sync allowing concurrent modification by multiple members significantly improving accuracy of configuration change
- **Deployment Operations-** Streamlined production deployment process by automating CI/CD release pipelines with Jenkins and Ansible yaml scripts which simplified deployment operations
- **Production Support**- Collaborated with stakeholders from HSBC UK office, solved client queries while working for a widely used business critical (tier-0) application.

EDUCATION

University at Buffalo *New York, USA*
Master of Science, Computer Science and Engineering *August 2022-December 2023*

- Coursework - Data Models and Query Language, Data Intensive Computing, Modern Networking Concepts, Information Retrieval, Machine Learning, Project Management, Computer Vision & Image Processing.

Pune Institute of Computer Technology *Pune, India*
Bachelor of Engineering, Information Technology *August 2016-April 2020*

- Coursework - Data Structures and Algorithms, Object Oriented Programming, Machine Learning Algorithms, Database Management Systems, Data Science and Big Data Analysis.

PROJECTS

Chat-Bot for Novels | Python, Apache Solr, React.js, Google Cloud, Docker, Flask
 A QnA chat-bot that can converse casually and answer questions on novel books.

Data Volume Reduction (with IBM) | Python, Django-Rest, Next.js/React js, IBM Cloud, REST, SQLite, Swagger
 A containerized app to filter geo-spatial and Exif image datasets by metadata with simulation of a proposed standard API and filter query to expose metadata and download only required data.

Caption-Craft | Python, React.js, Google Cloud Platform, Docker, Flask
 A caption generator that gives creative context aware captions directly from an image and emotion specified by the user.

Breast Cancer Analysis | Python, Flask, Machine Learning, Data Visualization, Data Analysis.
 A portal to predict mortality of breast cancer patients and visualize the SEER Breast Cancer Data to identify influential factors on tumor size and patient survival.

Audio Speech Emotion Recognition | Python, Machine Learning, Django, Librosa, HTML/Bootstrap
 A lightweight interpretable machine learning model to recognize emotion of audio speech with hand-crafted audio signal features.

Student-Mentor Bridge Portal | Java, JDBC, MySQL, HTML, CSS, Bootstrap
 A communication platform for mentors and students with features, including leave applications, appointment scheduling, performance tracking, allotment of students to mentors.