Madhura Satao

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EXPERIENCE

Software Engineer

September 2020 - June 2022

HSBC Software Development

Pune. India

- Spearheaded research and implementation of UI designs using Angular and AG-Grid for a data request-managing application with over **5000 users** enhancing overall user experience.
- Achieved 70% improvement in operation workflow for data requests handling by implementing three-level approval control procedure, in **Angular AuthService** contributing to operational efficiency.
- Designed schema for Elasticsearch indices and Microservices to manage multiple user roles and executed access rules to restrict access to data and APIs with Spring Security, JWT and Hibernate
- Implemented an XML visualizer and comparator, resulting in 80% faster and improved data analysis with intuitive custom filtering and threshold calculations. Utilized Java, Spring Boot, Angular.
- Automated GIT operations, to ensure business-critical configuration files were synchronized across environments facilitating 2 times faster and concurrent modification by multiple team members with improved accuracy.
- Streamlined deployment operations automating CI/CD release pipelines using Jenkins and Ansible integration enabling 1-click deployment and error-free workflow.
- Collaborated with stakeholders from HSBC UK office providing effective solutions for client queries, 10 per day, for a widely used business-critical (tier-0) application through production support.
- Employed Agile methodologies. Participated in meetings with product managers, sprint planning and retrospectives.

EDUCATION

Master of Science,

December 2023

New York, USA

University at Buffalo Coursework - Data Models and Query Language, Data Intensive Computing, Modern Networking Concepts, Information Retrieval, Machine Learning, Project Management.

Bachelor of Engineering,

April 2020

Pune Institute of Computer Technology

Pune, India

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

SKILLS

- Languages Java, Python, SQL, C, Typescript, Javascript, R.
- **Database** MySQL, PostgreSQL, MongoDB(NoSQL), ElasticSearch.
- Cloud and Dev J2EE, Spring Boot, Angular, React is, Node is, Diango, Google Cloud Platform, AWS
- **DevOps** Git, Linux, Jenkins, Ansible, Docker, Jira.

PROJECTS

Chat-Bot for Novels | Python, Apache Solr, React.js, Google Cloud, Flask

Developed and executed a conversational Q&A chat-bot with a casual communication style.

Mentor Bridge Portal | Java, JDBC, MySQL, Javascript, JQuery, HTML, Bootstrap

• Designed and integrated a robust communication platform facilitating seamless interaction between mentors and students.

Data Volume Reduction | Python, Django-Rest, Next.js, IBM Cloud, REST, SQLite, Swagger

Engineered advanced filter queries for large image datasets, enabling users to extract specific metadata and download only necessary data subsets.

Audio Speech Emotion Recognition | Python, Machine Learning, Django, Librosa

 Developed a lightweight and interpretable ML model to recognize emotions in audio speech from hand-crafted audio signal features.