Sagar Raval

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EDUCATION

Master of Science in Software Engineering   **Aug 2021 – May 2023**
San Jose State University, San Jose, CA
(Software Systems Engineering, Enterprise Software Platforms, Software Engineering Processes, Data Mining, Machine Learning, Deep Learning, Big Data Engineering, Software Quality Assurance Testing)

Bachelor of Engineering in Information Technology   **Aug 2016 – Aug 2020**
Gujarat Technological University, Ahmedabad, India

TECHNICAL SKILLS

Programming Languages: Java, Python, Javascript, Typescript, C#, C++
Database: MySQL, Firebase, MongoDB, AWS Athena, Oracle
Tools/Technologies: Spring Boot, Hibernate, ReactJS, ASP.NET, Node.js, Redux, Flask, REST API, Git, Sourcetree, Docker, JIRA, AWS cloud(S3, EC2, EMR), Gradle, Apache Airflow, Greenfoot, postman, sdkman, HTML, CSS, Bootstrap, Selenium
IDEs: Intellij IDEA, Eclipse, NetBeans, VS Code, Jupyter Notebook, Google Colab

PROFESSIONAL EXPERIENCE

Software Engineering Intern, KlearNow Corp., USA   **Jun 2022 – Aug 2022**
- Delivered and worked on system components built on ReactJS and Java for 3 panels - customer, administrator and supervisor
- Automated UI and API Gherkin test case scenarios of Java test framework improving 8% tests for total provided services
- Orchestrated completion of 10 additional stable tests in VS Code and Selenium for required components across product
- Engaged in regular Scrum sessions fostering idea exchange and retrospective meetings to deliberate on prioritized tasks

Application Development Associate, Accenture Services Pvt. Ltd., India   **Feb 2021 – Jul 2021**
- Collaborated in team of 4 members on Big Data project by developing and utilizing PySpark code scripts tracking through JIRA
- Analyzed in evaluating risk calculations of loan approvals on behalf of a client with over 7.5 million individual customers
- Structured AWS EC2 instance creation and monitored through PySpark scripts on AWS EMR with optimization
- Instructed 4 colleagues on Apache Airflow jobs and process of transferring tables on AWS S3 bucket and AWS Athena

Software Developer, Infex Biztech Pvt. Ltd., India   **Aug 2020 – Feb 2021**
- Created a Library Management System facilitating students and library managers providing book distributions to individuals
- Enhanced system achieving round-the-clock uptime architecture with MySQL databases to support around 10000 users
- Brainstormed two key features: displaying comprehensive book details, and managing book issuance information

PROJECTS

Smart Photo Gallery Application (Python, ReactJS, Flask, Firebase, OpenCV, Face-Recognition Library)   **Jun 2023**
- Implemented an offline system having 2 core features: search an individual's image; classify images from a directory
- Applied face recognition classifying images and storing in a personalized firebase storage without image quality degradation
- Incorporated supplementary functionalities such as text to image, remove background, image cartoonify and image deblurring
- Reduced search time by 40% and boosted accuracy by 20% through implementation of Face-Recognition Library

Hotel Management (Spring Boot, ReactJS, MySQL, Hibernate)   **May 2023**
- Cooperated with 3 team members attributing hotel search and booking options keeping flexibility to choose amenities
- Utilized flexible dynamic pricing feature that adapts to holidays, guest count, and amenities to optimize revenue generation
- Resolved conflicts and maintained regular updates by utilizing project journal, scrum meetings, reports, and scrum task board

Student Management System (C#, ASP.NET, Javascript, MySQL, Visual Studio Code)   **Apr 2023**
- Associated with 3 students to oversee University portal with all services for department management using ASP.NET Core
- Handled database and stored procedures in MS SQL Server to reduce the processing time boosting performance by 16%
- Revamped system by crafting and merging novel functionalities using C#, JMeter, and JavaScript within staging environments
- Strengthen system transparency and performance, enabling seamless handling of up to 10,000 concurrent users

FlickTime (ReactJS, Flask, Firebase, Python, postman, TMDB, Visual Studio Code)   **Apr 2023**
- Constructed application assisting users with personalized suggestions based on their watch history and similar user activities
- Refined recommendations with a hybrid model trained using 26K TMDB and MovieLens user records obtained by scrapping
- Integrated TMDB APIs into Flask framework and front end components in ReactJS culminating 10% faster responses
- Boosted model accuracy by 13% through retraining of recommendation model using stored user history

Space Typer Game (Java, Javascript, Greenfoot, HTML, CSS, Intellij IDEA)   **Dec 2021**
- Designed a game consisting a player entering correct words displayed on incoming meteors in order to prevent their collision
- Accomplished diverse features such as reverse and masked words mode, top 10 scores applying various design patterns
- Emphasized agile methodologies and adhered to Extreme Programming values throughout development process
- Improved performance leveraging daily scrum meetings and conducting a weekly sprint retrospective to review progress