Harsh Sanjaykumar Nagoriya

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Education

Master of Science in Computer Science   **3.90/4.0**
Arizona State University, Tempe, AZ   *Aug 2021 – May 2023*
Relevant Coursework: Cloud Computing, Data Processing at Scale, Software Testing/Quality Management

Bachelor of Technology in Information Technology   **8.14/10**
Dharmsinh Desai University, Nadiad, India   *Aug 2017 – May 2021*
Relevant Coursework: Data Structure, Algorithms, Databases, Advanced Java, Design Patterns, Distributed Computing

Technical Skills

Languages: Java, JavaScript, C/C++, Python, Bash, Solidity, SQL, PL/SQL, C#, Prolog, Assembly Language
Database: MySQL, PostgreSQL, MariaDB, Oracle SQL Plus
Technologies/Frameworks: JSP, Servlets, JDBC, Flask, .Net, AJAX, Spring, Hibernate
Developer Tools: Amazon Web Services, Truffle, Anaconda, Netbeans, Eclipse, Visual Studio, JUnit, Git, Taiga, Scrum

Work Experience

Audere, Seattle, WA
SDET/QA 1   *Aug 2022 – Present*
- Designed and implemented automated testing scripts using Espresso to increase testing efficiency and accuracy, resulting in a 40% reduction in manual testing time.
- Created and carried out more than 200 test plans for mobile apps, ensuring both high software quality and customer satisfaction.
- Collaborated with development teams to resolve 100+ bugs and improve software functionality.
- Participated in Agile sprints and provided input on product design and functionality improvements, contributing to the successful launch of 3 major product releases.
- Monitored and reported on testing results, providing insights and recommendations to improve software quality, resulting in a 95% customer satisfaction rate.

Arizona State University, Tempe, AZ
Computing Support   *Jun 2022 – Aug 2022*
- Supported developers with the widespread implementation of OpenCast, Wistia, and LMS software, resulting in improved experiences for around 5500 students.
- Set up and debugged server-side web applications and administered over 5 servers for the Math and Statistics department.

Institute for Plasma Research, Gandhinagar, India
Project Intern   *Dec 2020 – Apr 2021*
- Enhanced the development of Ethereum blockchain by utilizing 3 programming languages and maintaining both client-side and server-side code. Complied with industry-standard software development procedures and crafted 5 UML diagrams to enhance comprehension and facilitate future maintenance.
- Participated in code reviews to ensure the quality and reliability of the final product.

Projects

Face Recognition as a Service ↗   **Jan 2022 – Mar 2022**
- Constructed a face recognition service based on Python, deployed on Amazon Web Services (AWS) EC2, incorporating the use of SQS and S3 for cost-efficient scaling.
- Implemented manually scripted load-balancers that automatically scaled in and out on demand to accommodate changing traffic patterns.
- Evaluated the scalability of the application by generating 1000 concurrent user requests, demonstrating its ability to handle high volumes of traffic efficiently.

Soccer Tournament Website ↗   **Sep 2021 – Dec 2021**
- Developed a J2EE-based website with 6 distinct user roles, utilizing Agile software development principles, UML design concepts, Git version control, and Taiga scrum management.
- Revamped the user interface through integration of JQuery and AJAX scripts.
- Ensured high-quality results through compliance with specification-based and structural-based testing practices.

Face Mask Detection System ↗   **Sep 2020 – Dec 2020**
- Developed a distributed application using ResNet-101 CNN, Amazon Lambda and IoT devices for real-time mask detection from live video recordings and improved IoT operations latency.
- Tested the AWS Lambda function with 500+ requests in 5 minutes, achieving 2s per response time.