SHISHIR KUMAR SINGH

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PROFESSIONAL EXPERIENCE

Graduate Research Assistant   05/2024 – Present
UCF Rosen College of Hospitality and Management   Orlando, FL
- Led the development of an employee engagement app for cross-platform using Flutter and Firebase, resulting in a 35% increase in staff participation and satisfaction.
- Utilizing Firebase for backend services, including real-time database, authentication, and cloud storage, ensuring seamless data synchronization and secure user management.
- Implemented secure CRUD API endpoints with Firestore and Google Cloud Functions, improving data integrity and access control, thereby reducing data inconsistencies by 25%.
- Introduced sophisticated filtering options allowing staff to categorize and find engagement activities and resources based on department and interests, enhancing user interaction by 45%.
- Working with a multidisciplinary team using Git for version control and Agile methodologies, successfully delivering new features and updates with reduced development time.

Skills Utilized: Flutter, Dart, Firebase, Android Studio, VS Code, Git, Agile, Firestore

Graduate Research Assistant   08/2023 – 04/2024
Florida Solar Energy Center   Cocoa, FL
- Redesigned and updated Building Energy code compliance software to align with the 2023 Florida Building Commission standards using MS Access, SQLite, and C#.
- Designed and prepared databases with over 250,000 records, achieving a 99.5% data accuracy rate.
- Produced over 50 monthly reports using the DevExpress Environment and tailored 30+ reports from energy modeling software with C#.
- Collaborated with a 15-member team, ensuring project milestones were met on or ahead of schedule 95% of the time.
- Provided critical insights and data-driven recommendations through detailed and accurate reporting, enhancing decision-making processes. Streamlined data handling processes, significantly improving the data consistency.

Skills Utilized: C#, SQLite, MS Access, DevExpress, Data Structure and Algorithms, Visual Studio

Software Engineer   08/2019 – 07/2021
Sopra Steria   Noida, India
- Developed 4+ projects, meeting 100% client requirements and delivering 98% of projects on time.
- Orchestrated 200+ test cases using Java and implemented 50+ automated tests with Selenium, resulting in a 25% reduction in software bugs and a 40% boost in testing efficiency.
- Mentored 5 junior developers, conducting 100+ monthly code reviews to ensure a 95% adherence to best coding practices.
- Championed the execution of Agile methodologies in 4+ projects, resulting in a 20% rise in productivity and 30% quicker time-to-market.
- Operated software version control using Git for 4+ projects, ensuring 99.9% source code integrity and maintaining a 95%+ client satisfaction rate.

Skills Utilized: Java, Selenium, IntelliJ Idea, SoapUI, Jira, SVN, Maven

PROJECTS

Check Seat Availability at MyUCF (GitHub Project Link)
- Created a bot for the MyUCF portal that continuously checks course availability, notifying students via email when a seat is open and assisted over 30 students in enrolling in desired courses.

Skills Utilized: Java, Selenium, Java mail API.

The Grocery Cart Analysis (GitHub Project Link)
- The project focused on improving the online grocery shopping experience with machine learning algorithms to provide personalized product recommendations based on a user's prior purchases which enhanced the accuracy by 15%.

Skills Utilized: Python, Data Analysis, Machine Learning Algorithms

EDUCATION

Master of Science in Computer Science, University of Central Florida, Orlando, FL   08/2024
Bachelor of Technology in Computer Science, AKTU, Lucknow, India   07/2019

SKILLS

- Languages: Java, C#, Dart, Python, HTML, CSS, XML
- Frameworks: Bootstrap, Material, Spring, Spring Boot, Hibernate
- Databases: MySQL, SQLite, PostgreSQL, NoSQL, MongoDB
- Libraries and Other Tools: Maven, Gradle, Firebase, Selenium, Jira, SVN, GitHub, AWS (EC2), Agile, SoapUI, DevExpress, Firebase, Android Studio, VS Code, IntelliJ Idea, Visual Studio