Somu Medaka

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LinkedIn — GitHub Portfolio

Summary

Dynamic software developer with 2+ years of experience in full-stack development, manual testing, and database optimization. Skilled in building scalable web applications using Angular, React, and ASP.NET Core. Proficient in Android debugging, Linux commands, and RESTful APIs. Passionate about leveraging AI/ML to solve complex problems and deliver impactful solutions.

Education

Master of Computer Science (Artificial Intelligence Specialization)

Illinois Institute of Technology, Chicago, IL   *Expected Graduation: May 2025*

Technical Skills

- **Mobile Testing:** Manual Testing, Android Debugging (ADB), Linux Commands
- **Programming Languages:** C#, Python, JavaScript, SQL
- **Frameworks:** Angular 8, React, .NET Core, Flask
- **Databases:** Microsoft SQL Server, MongoDB
- **Cloud Tools:** Azure DevOps, RESTful APIs

Professional Experience

Software Engineer   *October 2021 – July 2023*

LTIMindtree, Hyderabad, India

- Improved database efficiency by 40% through query optimization and schema restructuring, reducing data retrieval time.
- Conducted functional and manual testing for client-facing applications, ensuring seamless mobile device compatibility.
- Debugged Android applications using ADB and resolved device-specific performance issues.
- Enhanced user satisfaction by 31% by developing responsive interfaces with Angular, React, and HTML5.
- Deployed RESTful APIs using Flask, enabling seamless data integration with external repositories.
- Applied Linux commands for performance monitoring and log analysis during application testing.

Project Experience

Flashcard Management System

- Conducted manual testing to validate CRUD operations for decks and flashcards, ensuring data integrity in the SQLite database.
- Simulated user interactions like deck creation, card sorting, and navigation to identify UI responsiveness and usability issues.
- Debugged errors related to state management using the Provider package and ensured seamless synchronization of changes across the app.

- Created and executed test cases to verify persistence of user data across app restarts, validating the use of shared preferences.
- Designed workflows and testing strategies using UML diagrams.

News Reader Application

- Performed API testing to ensure proper integration with NewsAPI, verifying correct handling of responses, including edge cases like empty or invalid data.
- Debugged network-related issues using Android Debug Bridge (ADB) to analyze app logs and optimize API calls for performance.
- Validated the app's behavior during network interruptions, ensuring error messages and retry options were displayed correctly.
- Tested UI responsiveness across multiple screen sizes and devices, reporting layout issues and accessibility concerns.
- Conducted manual testing and ensured data integrity with SQL Server.

Covid Vaccination Management App

- Conducted functional testing of user workflows, including registration, login, and appointment booking, to ensure smooth user experience.
- Performed device compatibility testing to validate app performance on various Android screen sizes and resolutions.
- Used Linux commands to analyze logs and identify issues in backend API interactions during appointment scheduling.
- Documented bugs related to API timeouts and provided detailed test reports, including steps to reproduce and proposed fixes.