KESHIKA TANK

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EDUCATION

University of Southern California *(Los Angeles, CA)*   **Aug 2021-May 2023**
Master of Science in Computer Science   **GPA 3.92**

Vellore Institute of Technology *(Vellore India)*   **July 2016-June 2020**
Bachelor of Technology in Computer Science   **GPA 9.58**

SKILLS

Languages and Frameworks: Java, Python, JavaScript, JQuery, React.js, Redux, HTML5, CSS, SQL
Tools: Appium, DialogFlow, Git, JIRA, Cordova, Visual Studio, RASA AI

PROFESSIONAL EXPERIENCE

Amazon *(11501 Alterra Pkwy, Austin, Texas, 78758, USA)*   **16 May 2022 - 5 Aug 2022**
Software Development Engineer Intern (Mozart – UI Test Automation framework, Appium, Python)
- Developed a UI test automation framework and deployed it on Amazon's dev pipeline, reducing manual testing efforts to half.
- Automated 50 UI test cases within a month for Customer Service Application in FireTablets, accelerating the project progress by 200%.
- Improved code quality and wrote dynamic automation scripts which increased automation performance in seconds by 22%.
- Conducted knowledge transfer session to train 20 Quality Assurance Engineers on writing test automation Python script using Amazon's Mozart framework.

Dure Technologies *(1101/1102 Centrum IT Park, Wagle Estate, Thane, Maharashtra, India)*   **8 June 2020 - 8 June 2021**
Associate Software Engineer (React, Redux, JQuery, JavaScript, Cordova, HTML, CSS)
- Primary contributor in the development of organization's key asset "iMonitor" which empowers countries and donors to collect information from end users about a public health program. This solution is used in more than 35 countries for different use cases like HIV, TB, Malaria and other public health programs.
- Engineered RASA AI based voice assistant which was trained on millions of keywords for TB use case for The Philippines (DOH) and will be used by 40,000+ health workers and several thousands of patients.
- Migrated application framework from JQuery to React & Redux, also followed best practices of using state management which led to 15% decrease in response time and 40% decrease in application size.
- Upgraded application features to make them dynamic and fetch data and information over APIs, reducing the person hours efforts spent in change management by 50%.
- Architected and coded an adherence module including data visualization and reminder feature, making the application feature rich which improved user engagement by 30%.
- Worked on major SDLC phases such as development, testing and revamping of 10+ applications following scrum methodology.

PROJECTS

- **Video Surveillance System : Background Subtraction & Alert System:** Devised a robust approach of Background Subtraction to detect motion enhanced with Adaboost face detector to recognise face. When an unrecognised person moves or camera's vision is blocked, an alarm goes off and user is alerted with SMS and email with a success rate of 96%.
- **Sight for Blind with Panic Button:** Built a system for visually impaired to identify objects using TensorFlow to fetch object name and Google text-to-speech to convert text to audio. Integrated an SOS button to broadcast user's location to emergency contacts through text message. Published in: International Journal of Future Generation Communication and Networking.
- **Data Encryption Standard Algorithm : Java Remote Method Invocation & OpenMP:** Analysed performance by calculating time of execution of DES algorithm serially and parallelly with JAVA RMI and OpenMP. Found that OpenMP performed better with a difference of 5ms. Published in: Journal of Advanced Research in Dynamical and Control Systems.

LEADERSHIP AND INVOLVEMENT

- Earned the position of Program Representative of School of Computer Science and carried out responsibilities of representing CS students in student organization from 2018 to 2020.
- Demonstrated a group research project at ICMDRSE-19 (International Conference on Multi-Disciplinary Research Studies and Education) and elucidated critical questions from panel resulting in acceptance for publishing.
- Mentored juniors on android app projects as Core Committee Member at IEEE Computer Society.