Sai Revanth Sivaraju

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Education

Santa Clara University **2022 – 2024**
Master of Science in Computer Science and Engineering *Santa Clara, CA*

Jawaharlal Nehru Technological University **2016 – 2020**
Bachelors in Computer Science and Engineering *India*

Professional Experience

Cognizant Technology Solutions **Nov 2020 – June 2022**
Software Engineer *Hyderabad, India*

- Played pivotal role in the software engineering lifecycle, managing applications for prominent brands like Paramount and Viacom across multiple platforms such as Website, Android, iOS, tvOS, and RokuOS.
- **Optimized Performance:** Achieved a significant 67% reduction in mean time to root cause analysis for website and app crashes, ensuring rapid issue resolution and minimal downtime.
- **Enhanced User Engagement:** Successfully managed live content for Paramount and Viacom websites and apps during high-profile event launches, leading to a remarkable 30% increase in user engagement.
- **Efficient Automation:**Implemented Selenium-based automated testing, resulting in a 28% increase in defect identification and swift issue resolution, enhancing overall product quality.
- **Proactive Issue Resolution:** Developed automation bots and integrated with Slack, enabling instant application outage alerts across all platforms. This initiative reduced downtime by a substantial 20%, showcasing my proactive problem-solving skills.
- **Tools Used :** Python, Javascript, Selenium, Service Now, Jira, Jenkins, Charles Logs, MUX, Sumologic.

Academic Projects:

Alzheimer's Disease detection | *Python, TensorFlow, Keras, CNN*

- Objective: Develop a Deep learning model for Alzheimer's disease detection
- Dataset Consists of 2D axial brain MRI images extracted from the ADNI baseline dataset.
- Model Architecture: Convolutional Neural Network (CNN), implemented using TensorFlow, Keras and used Adam Optimizer to train the model.
- Achieved notable accuracy of 0.85 in classifying Alzheimer's disease, mild cognitive impairment, and normal subjects.

YouTube Clone | *Next.js, Docker, Firebase, Google Cloud Storage , GCP Cloud run, Pub/Sub*

- Designed simple YouTube clone to learn core functionalities like video uploads, selecting muiltiple formats(360p,720p).
- Used Next.js to UI and Implemented user sign-up and authentication using Firebase Auth.
- Used Google Cloud Storage to store raw and processed videos and Employed Pub/Sub as a message queue to process video uploads asynchronously.
- Deployed video processing workers to handle video transcoding efficiently using Cloud Run.

Time Machine Bot | *Python, Discord.js, OpenAI API, Prompt Engineering*

- A discord bot that depicts the past as it happened and imagines the future based on past data using generative AI.
- The bot allows users to invoke the !future command to receive a text description and an image related to the near future, and the !past command to receive a text description and an image related to the past.
- Integrated OpenAI's language and image APIs for text and image generation.

Virtual World Generator | *HTML, CSS, JavaScript, OpenAI API*

- Developed web application, enabling users to generate 360 degrees virtual images based on input prompts and select from various artistic styles.
- Utilized Axios for HTTP requests, and ensured cross-browser compatibility for a seamless user experience
- Integrated A-Frame library for 3D visualizations and virtual reality experiences, enhancing the interactive and immersive nature of the application.

Technical Skills

Languages & Web Technologies: C, C++, Python, JavaScript, SQL, HTML, CSS, React.js, Next.js.

Databases: SQL, Firebase, MongoDB.

Tools & Technologies: RESTful APIs, Git, Github, Docker, Firebase, scikit-learn, TensorFlow, Keras.

Core Courses: Algorithms, Databases, Machine Learning, System Design.