YAGNA SRINIVASA HARSHA ANNADATA

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Education

University of Texas at Dallas, Texas **Aug 2022 – May 2024**

MSc, Computer Engineering **GPA: 3.72/4**

- Machine Learning, Applied Data structures, Stats for Data Science, Computer Architecture, Embedded systems.

Jawaharlal Nehru Technological University, India **Aug 2016 – Aug 2020**

B.Tech, Electronics and Communication Engineering **GPA: 3.5/4**

Technical Skills

Platforms/Tools: Selenium, Jenkins, Eclipse, JIRA, Confluence, Agile Methodologies, Arduino IDE, MATLAB, Google Colab, Wordpress

Languages: Java, C, Embedded C, Shell Script, Python, HTML

Professional Experience

University of Texas at Dallas, Texas, USA

Graduate Teaching Assistant **Aug 2023 – Present**

- Guided 50+ students, taught embedded systems concepts, supervised projects, facilitated experiments, offered individualized support, fostered collaborative learning.

University of Texas at Dallas, Texas, USA

Webmaster **Jan 2023 – Present**

- Led HTML, CSS, and WordPress development for the IEEE Dallas CAS website, resulting in a visually appealing and user-friendly platform. Increased user engagement by 25% through enhanced design and streamlined navigation.

OpenText, Karnataka, India

Associate Software Engineer **May 2022 – Jul 2022**

- Addressed search functionality issues in OpenText Documentum D2, specifically focusing on query-based search operations using content transfer on client machines.
- Developed and implemented a comprehensive unit test suite to assess product robustness, resulting in a noteworthy 5% enhancement in overall product quality.

OpenText, Karnataka, India

Associate Quality Assurance Engineer **Aug 2020 – May 2022**

- Conducted QA validation for the OpenText Documentum D2 product on multiple platforms, including Linux, macOS, and Windows.
- Utilized advanced software technologies, including Selenium, for automated testing and established Continuous Integration/Continuous Deployment (CI/CD) pipelines with Jenkins.
- Designed and executed a comprehensive regression test suite, achieving an impressive 95% coverage across the product's functionalities. which yielded 92% positive performance report.

OpenText, Karnataka, India

Engineering Intern **Oct 2019 – Apr 2020**

- Employed Appium and Android Studio to create an automation test suite for OpenText Documentum D2 on mobile devices, utilizing mobile elements for Android and iPhone platforms.
- Achieved coverage of 70% of the product's functionality during the internship.

Research

Processing-In-Memory

- The research aims to improve the energy efficiency of in-memory computing through the manipulation of parameters within the TinyML algorithm.
- The goal is to enhance the efficiency of microcontroller units (MCUs) while simultaneously reducing the real-time execution requirements of machine learning tasks.
- This approach is intended to optimize overall performance in the context of energy consumption and computational demands.

Academic Projects

Implementation of Gradient Descent and Neural Network **Tech: Python,Google Colab**

implemented gradient descent and a neural network with multiple hidden layers, in addition to input and output layers. The project was executed using Python and Google Colab, encompassing data preprocessing and the application of the neural network model to the processed data from a dataset.

Automation of Social Platforms **Tech: Java,Eclipse,Jbehave,Selenium**

Automated social platforms such as Facebook and Amazon using Selenium and Eclipse. Through the identification of web elements and their integration with Selenium, the relevant webpages were navigated, enabling the automation of processes like website login, element location, and actions