**Hriddhi Kulkarni** hri21@outlook.com | (806) 224-5235

<https://linkedin.com/in/hriddhi-kulkarni/>

<https://hriddhikulkarni.github.io/>

**Technical Skills**

**Programming Languages:** Python, JavaScript, Java, C#

**Web Technologies:** HTML5, CSS3, PHP, React, Angular, AJAX, Bootstrap

**Database Systems:** Amazon Redshift, Oracle SQL, MySQL, SQL Server

**Servers/Tools:** Linux, AWS, SoapUI, Postman, Unity, Firebase, Powershell, MATLAB, Android Studio, Eclipse, Jupyter, Anaconda, AdobeXD

**Version Control/Monitoring:** Gitlab, Splunk, AppDynamics, Jenkins, Nexus, OneAutomation

**Development Methodologies:** SDLC Agile, Scaled Agile(SAFe), Kanban, Waterfall

**Web services/Libraries/** SOAP, WSDL, XML, JSON, Junit, Spring MVC, Spring Boot, Scikit-learn, Pandas,

**Frameworks:** Matplotlib, NumPy, TensorFlow, Keras

**Experience**

**FedEx Services**, Collierville, TN

***Full Stack Developer III*** Feb 2021 - Present

* Provide leadership and initiative in the overall coordination of system requirements, program specifications, and code/unit test to meet business requirements/specifications for Revenue Systems applications
* Designed high level diagrams and sequence diagrams using UML and prepared technical documents
* Monitoring the health of the applications using AppDynamics tool
* Involved in end-to-end functional and non-functional testing
* Developed compare scripts for field-by-field comparison in old and new systems
* Analyze production problems and provide solutions, technical guidance to the team
* Resolve high and medium complexity test and production level problems
* Developing a CloudBees CI/CD pipeline setup for automating build and deployment process
* Involved in conducting Java, WebLogic upgrades and build application patches
* **Platform for Enterprise Account Receivable Services (PEARS) application**
  + Develop the application using Java/J2EE, Spring batch, SOAP web services, JMS, Linux script, EBS and Stored procedures
  + Constructed Junit test cases for Java/J2EE classes to improve the quality of the application
* **QuickPay application**
  + Perform enhancements on remittance application using Angular and Java, and improved efficiency in operations by 40%
* **Splunk monitoring dashboard** 
  + Developed a dashboard for enterprise services that improved production issue resolution by 60%

**Iowa State University**, Ames, IA

***Systems Analyst I*** Jun 2020 - Jan 2021

* Built web interfaces for biological databases based on responsive design and Section 508 compliance
* **Query portal application**
  + Designed and developed a query portal using JavaScript, jQuery, PHP, and SQL to retrieve 10GB Genome Sequencing SoyBase data based on user input
* **Data insertion application**
  + Designed a web application to automate data upload using the file system architecture for Soybean Maturity data
  + Developed the application using JavaScript, PHP, HTML, CSS, and Bootstrap
* Researched on machine learning based techniques for implementation in agronomy research projects
* Helped Soybean breeders maintain accurate and consistent SoyBase research data using the applications

**Security Benefit**, Topeka, KS

***Quantitative Developer Intern*** May 2019 - Aug 2019

* Migrated database from on-premise data storage to AWS Cloud (Amazon Redshift)
* Developed scripts using Python, Microsoft SQL to handle database migration
* Developed automation scripts to perform ETL on quantitative data using Python
* Performed Quality Assurance (QA) testing for quantitative data using Automic automation
* Researched and analyzed Amazon Redshift database performance post migration
* Performed system upgrades and recommended improvements

**RISA at Texas Tech University**, Lubbock, TX

***Machine Learning Intern*** Mar 2019 - May 2019

* Studied and applied different machine learning algorithms to datasets and analyzed the results using Python and TensorFlow
* Created charts in Google Colab to perform preliminary analysis and visualize data using Matplotlib

**Education**

**Texas Tech University**, Lubbock, TX Aug 2018 - May 2020

*Master of Science in Computer Science*

**Jawaharlal Nehru Technological University**, Hyderabad, India Sep 2014 - May 2018

*Bachelor of Technology in Computer Science*

**Research/Projects**

***Chest Disease detection using Deep learning***

* Implemented a neural network-based model to detect if a patient has chest disease(s) or not through the categorization of diseases
* Performed deep learning using Python, TensorFlow and Keras to enhance the disease prediction on NIH Chest X-ray dataset
* Utilized TPU hardware to implement the project and achieved a testing accuracy of 98.82%

***Escape Room***

* Translated and developed a VR game from a traditional escape room game utilizing Oculus and Unity
* Utilized C# and Unity to create a 3D interactive environment providing physical interaction for teleportation and grabbing objects
* Performed UI testing on 6% of the users for accuracy, timing and qualitative feedback

***Personal Mirror***

* Designed an augmented mirror interface acting as a large touch display with elegant design, useful features, and functionalities
* Utilized HTML, CSS, P5.js, Typescript, and AngularJS to develop the personal mirror interface
* Applied ‘Golden rules and principles of interface design’ for designing the interface

***AsIs Lang***

* Developed a general-purpose, object-oriented, interpreted, loosely typed, machine-independent language
* Demonstrated 5.068% better efficiency in terms of computing speed than Python
* Utilized Python, PHP, and JavaScript to construct the compiler

**Certifications**

Docker and Kubernetes: The Complete Guide from Udemy Oct 2018

**Publications**

**H. Kulkarni, B. Kumbham and J. J. S. Mani,** "Multiclass Classification to Predict the Level of Storm and Damages Using Support Vector Machine," 2018 Fourteenth International Conference on Information Processing (ICINPRO), Bangalore, India, 2018, pp. 1-5, doi: 10.1109/ICINPRO43533.2018.9096705.