

VIVEK KUKKAPALLI

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EDUCATION

University of Houston – Clear Lake – Master of Science in Computer Science (GPA 3.758)

Aug 2021 - May 2023

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java
- **Databases:** MySQL, PostgreSQL, Firebase
- **Web Technologies:** HTML5, CSS3, Angular, JS
- **Other Tools:** Docker, GIT, AWS

EXPERIENCE

NCWS Student Tech IV

Jan 2022 - Present

- Performed technical operations in the computer lab.
- Working on software updates and helping the students, faculty with technical issues.

IBM Internship

May 2019 - Nov 2019

- Worked on integrating the hardware devices with cloud and using the data to control devices.
- Developed a smart home automation system where all the appliances can be operated using audio.
- Used the IBM Cloud, IoT Platform to assist in designing and implementing IoT hardware and sensors.
- To guarantee the security of sensitive data, best practices for IoT security and data privacy were learned and put into practice.

PROJECTS

Full Stack Web Application for Consortium Blockchain

Tools/Languages Used: HTML, CSS, JS, Angular, NodeJS, Visual Studio Code, PostgreSQL, Shell Scripting and Postman

- Connected with stakeholders and understood the whole project and collected requirements.
- Created initial setup of the blockchain and integrated with the web application.
- Hosted the AWS instance for Postgres database and maintained it throughout the project development process.
- Created connections between frontend, middleware, backend applications thereby creating a smooth flow from end-to-end application.
- Designed and architected the Database for the storage of user management information at Postgres and File system in middleware and backend, respectively.
- Refactored the frontend application to adjust the needs of user management which helped in generating a faster and responsive UI.
- Developed a JavaScript file that can help to run the application using API's and CLI

Recipe Book

Tools/Languages Used: HTML, CSS, JS, Angular, NodeJS, and Firebase

- Recipe book is a web application where users can share their recipes.
- User Authentication has been done using JWT.
- Created a search feature so users could look up recipes using keywords or ingredients.
- User's have the options to Add, Edit, Delete, and favorite the recipes.

Computer Aided Mass Detection in Mammograms

Tools/Languages Used: Python, Anaconda

- Designed a CAD system that automatically classifies the given mammogram as a Normal or Abnormal
- Used machine learning algorithms and Python to train and test the models.

PUBLICATIONS

Computer Aided Mass Detection in Mammograms

- Published at 5th International Conference Computer, Communication and Signal Processing held on 24-25 May 2021
- Link: [IEEE](#)

CERTIFICATION

- Certified in **Python, Java and C** from Coursera
- Cisco certified in **CCNA: Introduction to Networks**