SURABHI JAGADEESH

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EDUCATION

Master of Science: Computer Science
The University of North Carolina At Charlotte | Charlotte, NC | GPA: 4.0/4.0 **Aug 2022 – Dec 2023**
Bachelor of Engineering: Computer Science
Global Academy of Technology | Bengaluru, India | GPA: 3.7/4.0 **Aug 2017 – Aug 2021**
Relevant Coursework: Algorithms and Data Structures, Mobile Application Development, Network-based Application Development, Computer Networks, Machine Learning, Database Management System, Intelligence System.

SKILLS

- **Operating System:** Windows, Linux, MacOS
- **Programming Language**: Java, Python, Kotlin, C, C++, .NET
- **Databases**: MySQL, SQLServer, Firebase, MongoDB
- **Android Development**: Android Studio, Java, Firebase, OKHTTP, Google Analytics, Picasso, JetPack
- **Framework**: HTML, CSS, JavaScript, Bootstrap, jQuery, JSON, NodeJS, RESTful Services, ReactJS, Github, Express.js

WORK EXPERIENCE

Graduate Teaching Assistant | University of North Carolina, Charlotte **April 2023 - Present**
- Teaching Assistant for the course Applied Machine Learning based on Python which primarily focuses on Data visualization, Regression, Classification and Neural Networks.
- Instructional Assistant for subject Algorithm and Data structure cultivating a deeper understanding of algorithmic problem-solving techniques and data structures among students.
- Responsible for mentoring students, analyzing data, clearing doubts, and grading applications and assignments.

Digital Technology Junior Analyst | NTT Data Global Delivery Services Private Limited **Sept 2021 - July 2022**
- Successfully completed salesforce development training and attained platform developer I certification.
- Leveraged Knowledge on programming skills like Java, Apex and JavaScript to construct Apex Classes, triggers, Aura components and LWC components in Salesforce based on customer requirements.
- Worked closely with Onsite Team to develop robust solutions to meet market requirements for developing an application for Jaguar and Land Rover corporation based in the UK market.

Internship | Movie Qu **Nov 2020 - Dec 2020**
- Performed web scraping using Python and Selenium to collect data with regards to US movie theater websites.
- Facilitated the use of collected data for building iOS mobile applications and optimized experience for ticket purchases.

Internship | Tequed Labs – Research and Innovation Hub **Jan 2020 - Feb 2020**
- Collaborated with a team of developers to create an Android Application for tracking student attendance.
- Participated in a hackathon to develop an application that was awarded for best performing application.

PROJECTS

Diabetic Retinopathy Detection using Deep learning | *Technologies used: efficient net, gaussian blur, python*
- Created a model to automatically detect the degree of retinal damage using the pre-trained deep neural networks on the Diabetic Retinopathy Database.The model was utilized to develop an application using a flask.
- Image processing techniques such as Gaussian Blur, Circle crop, and deep learning techniques such as Transfer learning and Efficient Net were employed. The software creates a report with processed photos for diagnosis after classifying the degree of diabetic retinopathy from a fundus image of an eye.

ToDo Notes Android Application | *Technologies used: Kotlin, Android Studio,JetPack*
- Developed a modular Notes Application with MVVM architecture, AndroidX libraries, and Room for data storage.
- Implemented LiveData, Coroutines, and Toothpick dependency injection for efficient real-time note synchronization, asynchronous operations, and maintainable code.

Live Chat Mobile Application | *Technologies used: Java, Android Studio, Firebase*
- Developed a live chat application that uses Firebase Authentication and enables simultaneous live messaging between numerous users. Added favorites, likes, and deletion features.

Fintrak | *Technologies used: HTML, CSS, Bootstrap, NodeJS, MongoDB*
- Developed a personal expense tracker website called Fintrak featuring user authentication, expense and budget management, reporting, email notification, and security measures. Simplified financial management for users with a user-friendly interface to track their spending habits and make informed financial decisions.

Jewelry Trading Web Application | *Technologies used: HTML, CSS, Bootstrap, NodeJS, MongoDB*
- Developed a web application based on the MVC architecture using Node.js, MongoDB, Express.js framework to provide a platform to trade a jewelry product.

Complaint Management System| *Technologies used: C#, .NET*
- Developed a user-friendly website where people of any age group can conveniently raise their complaints, track their progress and finally get their complaints resolved all under one portal.

Blood Alcohol Concentration Calculator | *Technologies used: Java, Android Studio, Firebase*
- Created an Android app for monitoring blood alcohol content and drink limits, utilizing Firebase for user data storage and API integration for real-time updates.