Huma Tejaswi Akkem

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EDUCATION

University of Illinois Chicago | BS in Computer Science | Honors College | Dean's List   Dec. 2022
- GPA: 3.6/4.0
- **Coursework**: Data Structures and Algorithms, Programming Languages Design and Implementation, Software Design, Kernel Systems, Artificial Intelligence, Machine Learning, Computer Graphics, android Development, Databases, Visual analytics, Visualizations, and application development.
- **Awards/Activities**: Flashpoint Engaging Leadership Program UIC, Association of Computer Machinery Sig-Game lead, Chi-Town Hackathons, Google Campus Work-Shop Teaching Assistant.

COMPETENCIES

- **Programming Languages**: C, C++, C#, Python, SQL, PostgreSQL, Java, Go-Language, Elixir, Swift, Spring, Kotlin
- **Web Technologies**: HTML, CSS, JavaScript, Assembly, React, .NET Framework, AngularJS, node.js
- **Operating Systems**: macOS, Linux, Windows
- **Tools**: Azure, AWS, CI/CD, Agile, IntelliJ, Git, Bitbucket, Eclipse, Visual Studio, Selenium, Junit, Docker, MVC, Jenkins.

EXPERIENCE

University of Illinois at Chicago | Technologies: C, C++, C#, JavaScript   Dec 2021 – Jan 2023
Computer Science Teaching Assistant-CS362 | Chicago, Illinois
- Assisted Professor in supervising students with hardware tools such as Arduino, Raspberry Pi, Minnow board MAX, and Nanode.
- Guided over 250 students in hands-on labs and held office hours for individual support.
- Provided feedback for assignments and labs, ensuring students' understanding and progress.

Korn Ferry |Technologies: HTML, CSS, JavaScript, R-Markdown, React, D3.js, bootstrap, PHP   Jun 2022 - Oct 2022
Web/UI Developer Intern |Los Angeles, California (Remote)
- Utilized D3.js, Java, and HTML to develop interactive talent acquisition reports visualizations, resulting in improved client analysis of company operations and workforce demographics.
- Improved the usability of an existing visualization by 75% and concurrently developed a user-friendly web portal with features such as real-time data updates, a comprehensive dashboard, and a dynamic news section, further elevating the platform's user engagement
- Implemented a RESTful API endpoint to pull and sort the latest news, increasing efficiency and user engagement with a website click tracking tool.
- Assisted in migrating the web app hosting from local servers to Azure cloud and collaborated with product management to gather requirements and opinions.

Illinois Department of transportation | Technologies: Python, Excel, NumPy, HTML   April 2022 – Jun 2022
Machine Learning sprintern |Springfield, IL (Remote)
- Created and optimized a machine vision system for truck parking using Mask R-CNN, Pillow, TensorFlow, and OpenCV-Python, pre-trained the data while checking for errors manually, implemented an automated timestamp system to record truck entry times.
- Trained the ML model for 30+ hours and tested for 20+ hours, which achieved 93% accuracy and was presented to team.
- Implemented a machine learning model to read data automatically from the recorded history, additionally, the model also reads current parking trucks data and handles the weather issues.

Navayuga Infotech Company | Technologies: Java, CSS, JavaScript, HTML.   May 2020 - Aug 2020
Software Engineering Intern | Hyderabad, India
- Assisted in developing a software-based program for access management that determines who is allowed to enter the company
- Collaborated in a team to design an algorithm which achieved physical access control such as biometric and facial recognition
- Conducted feedback surveys to optimize the application and updated the application according to feedbacks

PROJECTS

Student Participation Application | Technologies: ASP.NET, C#, SQL, AngularJS, Bootstrap   Jun 2021 – Jan 2023
- Designed and developed a student participation using ASP.NET, C# and SQL server and created an intuitive user interface that streamlined the course details, enrollment details and student details.
- Utilized AngularJS and Bootstrap to create responsive and mobile- friendly user interfaces, improving accessibility for user
- Conducted testing and debugging the application to ensure the application was free of bugs.

Triangle Meshes Rendering (github.com)   Mar 2022- Dec 2022
- Developed an application to render an urban setting according to JSON file which contains coordinates, indices, and colors for 4 layers (buildings, water, parks, surface)
- Worked with JavaScript, HTML and WebGL calls to create a basic webpage to take a file input from the user and use transformations and triangle meshes rendering upon it
- Implemented four control panels using HTML: Flat Program (handles shading of flat layers), Building Program (handles shading building layer), Building Layer (handles flat and building layer) and Layers (collection of layers)

Stock Price Prediction (Capstone Project Published in UIC portal)   Aug 2021-Oct 2022
- Created a machine learning model to predict stocks using the K-nearest neighbor algorithm and classification approach.
- Used a 67/33 split of training and testing data and calculated errors with root mean square and long short-term network.
- Model achieved a 70% accuracy rate with 4 years of stock data and was published on a university radio portal.