LAKSHMI VENKATA DURGA CHAITANYA THADIBOINA

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EDUCATION

Indiana State University, Terre Haunte, Indiana   Anticipated May 2025
Bachelor of Science, Computer science
Concentration: Data Science
CGPA: 3.60/4

Experience

Software Engineer Intern   dec, 2022-Feb, 2023
SiliconAcademyPvtLtd

- Developed and optimized efficient, scalable code in **C** and **Java**, enhancing software performance and maintainability.
- Gained hands-on experience in **data management and processing**, improving system functionality and efficiency.
- Worked on challenging projects that strengthened **problem-solving skills** and deepened software development expertise.
- Optimized performance by handling **intricate datasets** and implementing effective data processing solutions.
- Contributed to software solutions that enhanced overall **functionality and efficiency**.

Technical Certifications

LEARNING HOW TO LEARN: POWERFUL MENTAL TOOLS TO HELP YOU MASTER TOUGH SUBJECTS   Mar 2023
By Deep Teaching Solutions on Coursera

https://coursera.org/share/2c6033eb3aa5795ef4d86e034d75cac0

Microsoft Azure Fundamentals   Jan 2023
By Microsoft on LinkedIn

HTML, CSS, and JAVASCRIPT FOR WEB DEVELOPERS   Oct 2021
By Johns Hopkins University on Coursera
https://coursera.org/share/72847bc4dbcf079cb76f6fe5dfc3ec73

ACADEMIC PROJECTS

Nine Men's Morris Game, AI | Java   Nov 2023

- Developed a **Nine Men's Morris** game using **Java**, implementing AI-driven gameplay.Importing necessary modules and libraries in from the ChatterBot and ChatterBotCorpusTrainer
- Designed and optimized **game logic** with efficient algorithms for smooth execution.Use a ChatterBotCorpusTrainer to train the ChatBot on predefined dataset
- Implemented the **minimax algorithm** with **alpha-beta pruning** to enhance AI decision-making.
- Created an intuitive **user interface**, improving user experience and engagement.
- Applied object-oriented programming (OOP) principles for modular and maintainable code.
- Conducted rigorous **testing and debugging** to ensure optimal performance and reliability.
- Improved AI adaptability, enabling dynamic strategy adjustments based on game state.

Smart Agriculture Using IoT|Research Paper   May 2022

- IoT-based smart farming includes systems that use sensors to monitor the crop field
- These sensors monitor every aspect of crop production, including soil moisture, humidity, light, temperature, and irrigation system automation
- This technique allows farmers to keep an eye on their fields from anywhere
- When compared to traditional cultivating, family cultivating, and upgrades profoundly simple cultivating, IoT-based cultivating is far more productive
- Edge computing will allow the farm or greenhouse to operate independently of the core server and make data – driven decisions collected from local sensors
- The implementation of smart agriculture system can be varied depending on the particular needs and resources of the agricultural field setting. However, but the working principles such as collecting data through sensors, analyzing the data to provide awareness, and using the insights to inform decision-making methods and automate tasks will remains same

SKILLS, ACTIVITIES& INTERESTS

Programming Languages: Java, C++,Object-Oriented Programming, Data Structures & Algorithms, Hibernate, JavaScript, NodeJS, TypeScript, Python, C,SQL

Front-End: HTML/5, CSS/3, JavaScript, ReactJS, Redux, Next JS, React Router, JSON, AJAX, Microservices.

Testing: React, Testing Library.

General Programming: HTML, CSS, ReactJS,DOM, User Experience (UI/UX).

Tools and Databases: MySQL, MongoDB, Database Management System (DBMS) Git, GitHub,MATLAB, Docker, AWS

Certifications and Training: Artificial Intelligence and Machine learning, Academic Research Foundations, networking, Business Analysis, Project Management, Prioritizing Management, Decision Making, Ethics in Cyber Security, Data Engineer, Team work, http, Research and Development, Web technologies, Business Writing, marketing strategies, Scalability, Problem solving skills

LEADERSHIP AND INVOLVEMENTS

College Cultural Fest| Chief Advisor & Chief Organizer   Oct 2022

- Spearheaded 250+ team members and volunteers for the management of multiple departments and promotional and sponsorship strategy for offline and social media, resulting in 800+ attendance & 12 sponsorships secure

Board Advisor & Support volunteer
June 2020

- Supported board and club members in organizing social awareness campaigns, including blood drives, polio awareness, ethics, and literacy drives, occur in a 100% increase in awareness rate of the targeted area