Venkata Sai Harsha Vardhan Mirthinti

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Graduate Student in Computer Science looking out for Spring Co-Op / Summer 2024 Internships;

EDUCATION

Master's in Computer Science   **Dec 2024**
Arizona State University, Tempe, Arizona   **GPA - 4.0 (current)**

Bachelor of Technology in Computer Science   **May 2022**
Andhra University College Of Engineering, Visakhapatnam, India   **GPA - 8.52 / 10**

TECHNICAL SKILLS

Languages: C, C++, JavaScript, Java, SQL, Python3, Bash, HTML, CSS.
Frameworks: Django, Flask, Spring Boot, NodeJS(Express).
Tools & Technologies: Git, JIRA, Linux, Mongoose, Tableau, Microsoft Office.
Databases & Cloud Services: MySQL, PostgreSQL, MongoDB.
Miscellaneous: Data Structures & Algorithms, Object Oriented Programming, Distributed Software Development, System Design.

PROFESSIONAL EXPERIENCE

Cognizant Technologies: Big Data & PySpark Intern   **May 2022 - Dec 2022**
- Gained theoretical and practical knowledge of the concepts of **Big Data** and **Hadoop** frameworks.
- Analyzed flight reservation data using PySpark and prepared models, and graphs based on customer behavior, and increased the algorithm's performance by **10%**.
- Gained hands-on experience on **Amazon Web Services** and **GitHub** technologies as a part of the internship program.
- Worked on testing frameworks like **JUnit** and **Mockito** during the first 2 weeks of the internship program**.**

PROJECTS

Real-Time Accident Detection and Alerting System, *Academic Project*
- Designed an application that collects accident videos and sends alert messages to concerned authorities when an accident is detected.
- Detection was performed using the **YOLO(You Only Look Once)** version 3 architecture and has achieved an **accuracy** of **95%** in accident detection.
- A user interface has been created for passing the accident video footage and detected accidents are displayed over the interface and are also saved in the system for future reference.
- Alert messages are sent directly to the concerned authorities via Email and Whatsapp messages along with the location where the accident has occurred, improving the alerting mechanism by **35%**.

Online Blog Application, *Personnel Project*
- Created a Blog Website for the users to write blogs on their preferred topics using **Django, HTML, and CSS**.
- The application consists of Home, User Registration, Login, and User profile pages which can be navigated easily.
- Users can create the account by specifying their email address and password and can start using the application.
- The user profile page consists of all the blogs written by that particular user at a rate **5 blogs per page** and options to modify or delete the blogs.
- Devised a password reset mechanism by sending a reset link to the registered email address.
- Used styling frameworks like **Bootstrap** to enhance the user experience.

Online Examination System Using JAVA, *Academic Project*
- Created an Online Examination System for the students to write exams on their preferred topics using **Core JAVA and MySql**.
- The application consists of Login, Registration, and Exam Interface pages as the part of design.
- Students need to register into the system and their details will be stored in a **MySql** database and are validated using **WAMP** Server.
- The examination page consists of 15-20 questions depending on the need and a running timer of 15 minutes as a part of the exam duration.
- The Front-end part of the application was developed using **Java Applets** and **Swing.**

EXTRA CURRICULAR & VOLUNTEER WORK

Code The Dream, *Tutor*   **Aug 2023 – Present**
Volunteering as a **JavaScript** tutor for Code The Dream Organization.
Diploma In Spanish   **Feb 2019 – Feb 2020**
Department of Foreign Languages, Andhra University, Grade: Distinction.

LEADERSHIP

- Led a team of **50** people in the Beach Cleaning program, a Swachh Bharat Initiative by the government of Andhra Pradesh.