Sriabhinay Kusuma

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Education

University of Alabama	*Huntsville, AL*
Master's in **Computer Science** – 4.0/4.0 CGPA	Expected: **May 2024**
SR Engineering College	Warangal, *India*
Bachelor's in **Computer Science** – 3.3/4.0 CGPA	Aug 2018 – May 2022

Technical Skills

Languages: HTML/CSS, C, Python, SQL, Java, JavaScript; **Databases**: MySQL, MongoDB.
Technologies/Frameworks: React, Next.js, Node.js, Redux, Tailwind CSS, MERN, REST API, Spring Boot, JDBC, Tomcat.
Cloud: AWS (EC2, RDS, Lambda); **Others:** Git/GitHub, CNN, Transfer Learning, Postman, Docker, jQuery.
Skills: Data Structures and Algorithms, Database Management, Operating Systems, Client Server Architecture.

Experience

University of Alabama   *Huntsville, AL*
Graduate Teaching Assistant   Jan 2023 – Dec 2023

- **CS454/554 Cloud Computing course** - Lab Setup and Support: Utilized Proxmox to create and manage virtual machines, providing a platform for student teams to experiment with cloud computing concepts.
- Responsible for creating and administering OpenStack accounts for student teams. Instructed students in using OpenStack's CLI, VM creation, authentication, aiding cloud-based software management skills.
- **CS104 Python course** - Student Assistance and Grading: Conducted in-person lab hours, offering hands-on assistance to enhance student problem-solving skills in Python. Provided Grading and Support for the lab assignments for 40+students.
- Provided personalized tutoring for student needs for improved understanding and proficiency in Python programming.

Student Specialist IV - Grader   Aug 2022 – Dec 2022

- **CS317 Design and Analysis of Algorithms** - Responsible for grading and in-person academic support for 60+ students.
- Syllabus involves: Divide and Conquer, Dynamic Programming, Graphs, Sorting and Searching, Greedy algorithms, etc.

Projects

Sneakers Adda | Technologies: Next.js, React, Node.js, MongoDB, Tailwind CSS, Vercel, OpenAI   Dec 2022 – Present

- A dynamic web project leveraging NextJS framework and ReactJS as frontend library for real-time sneaker data by web scrapping and public API endpoint from GOAT.com
- Incorporating Server Side Rendering, Static Site Regeneration, State Management, MongoDB, Node.js.
- Integrated a feature using the OpenAI API. Hosted on Vercel - link

CRUD Op's | Technologies: Next.js, React, Node.js, MongoDB, Tailwind CSS   Sep 2022 – Nov 2022

- A full-stack web application built using the Next.js framework, React for the frontend, Node.js for the backend, and MongoDB as the database. It demonstrates core CRUD operations with MongoDB, Server-side processing with Node.js.
- Use case: Managing items similar to a to-do app with functionalities to add, view, update, and delete items - link

Human Face Emotion Detection | Technologies: Keras, VGG, Numpy, Pandas, Jupyter

- Developed a Convolutional Neural Networks model to classify the human's emotion through real time face footage.
- Build on top of a popular pre-trained model VGG-19 with the Transfer Learning methodologies.

Cryptocurrency Tracker | Technologies: HTML, Tailwind CSS, jQuery, JavaScript

- Built a responsive cryptocurrency tracking app, by real-time data fetching for cryptocurrencies from a public API - link

Hospital Administration | Technologies: Java, File IO, Java Swing, Event Handling

- Developed a standalone desktop-based app with Java Swing for UI, integrating modules for patient registration, emergency services, diagnostics, and scheduling. Features include login system, patient and operation detail management, record handling, aimed at hospital admin tasks - link

Certifications

Complete Python Bootcamp from Zero to Hero - UDEMY | Complete JavaScript Course 2021: From Zero to Expert - UDEMY