

# Sriabhinay Kusuma

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## Education

University of Alabama

Master's in **Computer Science** – 4.0/4.0 CGPA

SR Engineering College

Bachelor's in **Computer Science** – 3.3/4.0 CGPA

Huntsville, AL

Aug 2022 – May 2024

Warangal, India

Aug 2018 – May 2022

## Technical Skills

**Languages:** JavaScript, HTML/CSS, Python, C, Java, C++; **Databases:** SQL, MongoDB, Postgres

**Technologies/Frameworks:** React, Next.js, Node.js, Redux, Tailwind CSS, MERN, REST API, Spring Boot, JDBC, Tomcat

**Networking:** TCP/IP, UDP protocols; **Cloud:** AWS (EC2, RDS, Lambda)

**Others:** Git/GitHub, CNN, Transfer Learning, Postman, Docker, jQuery, MySQL, Visual Studio, Linux, Windows, MacOS

**Academic Coursework:** Data Structures and Algorithms, Database Management, Operating Systems, Client-Server Architecture, Multi-threaded/Concurrent Programming, Network Security, Computer Networks, Concurrency Management in Network Applications, Software Engineering.

## 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.

**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.

Garuna.tech

Warangal, India

**Garuna – Software Intern**

May 2020 – June 2022

- React, HTML5, and Tailwind CSS to craft dynamic, responsive web applications for local businesses. My role involved designing engaging user interfaces and implementing customized, visually appealing solutions that enhanced client operations.

## Projects

**Sneakers Adda | Technologies: Next.js, React, Node.js, MongoDB, Tailwind CSS, Vercel, OpenAI**

- 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**

- 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.

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

- Developed a standalone desktop-based app with Java Swing. Features include login system, patient and operation detail management, record handling, aimed at hospital admin tasks - [link](#)

## Certifications

- [AWS Knowledge: Cloud Essentials](#) | [Complete Javascript from Udemy](#) | [Complete Python from Udemy](#)