Sathiya Narayanan Venkatesan
Raleigh, NC 27606 | svenka32@ncsu.edu | linkedin.com/in/sathiya06 | github.com/sathiya06 | (919)559-6057

EDUCATION

- **North Carolina State University, Raleigh, NC** Expected May 2025
  Master of Computer Science
  Coursework: Software Engineering, Design & Analysis of Algorithm, Computer Networks.

- **Sri Krishna College Of Engineering And Technology, Coimbatore, India** Apr 2023
  Bachelor of Computer Science and Engineering GPA: 9.23/10
  Coursework: Artificial Intelligence and Expert System, Advanced JAVA Programming, Data Analytics.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C, C++, SQL, Go, HTML, CSS, JSON, JQuery, PHP.
Frameworks and Web Technologies: React JS, Flask, Bootstrap, Spring, Ruby on Rails, OAuth, REST APIs .
Tools and libraries: TensorFlow, NumPy, Keras, Git, VS Code, IntelliJ, Google Colab, Eclipse, Docker.

EXPERIENCE

Zoho Corporation Chennai, India
Software Development Engineer Intern Jul 2022 – May 2023

- Maintained a bug reporting web application by adding different features and optimizing the video recording functionality of the tool, achieved 80% increase in accuracy of recorded bugs.
- Learned and applied Object Oriented Programming Concepts, Design Patterns, Version control systems. Designed, built, and deployed a web application using JSP (JavaServer Pages) and Servlet on Tomcat standalone server.
- Accomplished a 75% reduction in scheduled job Processing time by making all the process run independently.
- Utilized knowledge of query execution plan and SQL optimization to optimize database performance, resulting in a 20% reduction in query response time.
- Collaborated with cross-functional teams to identify and resolve bottlenecks in the video editing process, resulting in a 90% decrease in errors and delays.
- Orchestrated the seamless integration with multiple products on the organization, which included learning different software stacks and leading to a 60% decrease in onboarding time.

PROJECTS

- **Web Application :** Created a user-friendly file sharing Website using Firebase as the backend, lowering the file upload time to under 5 seconds. Implemented React JS to enhance the performance and responsiveness of the file sharing platform. Devised a QR code generator that automatically generates a unique QR code for each uploaded file, providing users with an easy and convenient way to download their files.

- **Chat Bot:** Developed and implemented an advanced chatbot using the open source platform RASA, utilizing contextualized questioning and symptom analysis to accurately identify high-risk individuals with a success rate of 90%. Provided seamless integration with local health systems, enabling the chatbot to quickly provide contact information for nearby medical institutions, resulting in an average reduction of 30 minutes in obtaining medical assistance.

- **Machine Learning :** Trained a CNN model in Python, TensorFlow, and NumPy to diagnose different stages of Alzheimer's disease from MRI reports. Constructed a dataset of 6400 MRI images after skull stripping the MRI images using the FSL library. Attained an accuracy of 80% when tested on a dataset of 2000 MRI images with a cross-entropy loss function.

EXTRA-CURRICULARS

- **Coding Club:** Served as Vice President where i acted as focal point of communication for members, university staff and others interested in the club. Organized an intercollegiate coding competition with over 100 participants, resulting in a 30% increase in club membership and recognition from the college administration.
- **Fight Corona Ideathon:** Proposed mobile app to track the position of users and communicate this information to bus drivers, ensuring optimal alignment between passenger demand and available seating capacity.
- **Deepvision AI hackathon:** Developed and trained a chatbot using natural language processing techniques to provide real-time updates on the availability of medical facilities during the COVID-19 pandemic.