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 Algorithms, Computer Networks.

- **Anna University**, Chennai, India   Apr 2023
  Bachelor of Computer Science and Engineering   GPA: 4.0

 Coursework: Artificial Intelligence and Expert System, Advanced JAVA Programming, Data Analytics.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C, SQL, Go, HTML, CSS, JSON, JQuery.

Frameworks and libraries: React JS, NodeJS, Flask, Fast API, REST API, TensorFlow, NumPy, Keras, 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, achieving 80% increase in accuracy of recorded bugs.

- Learned and applied Object Oriented Programming Concepts, Software Development Life Cycle(SDLC), Design Patterns, used 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 within the organization, which included learning different software stacks and leading to a 60% decrease in onboarding time.

PROJECTS

- **Web Application** : Worked on a web scraping project which is implemented utilizing beautiful soup. Implemented secure user-based login with PostgreSQL and JWT. Successfully resolved challenges related to data consistency, resulting in a 20% improvement in data accuracy. Implemented a wishlist feature, making it easy for users to save and access search results. Added currency conversion, allowing users to view results in their preferred currency. Added a download option for search results to be downloaded in CSV format, enhancing utility.

- **Machine Learning** : Trained a CNN model using 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.

- **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.

EXTRA-CURRICULARS

- **Student Organization**: Member of an Indian Graduate Student Organisation at NC State where I acted as focal point of communication for members, university staff and others interested in it. Organized an intercollegiate event with over 400 participants, resulting in a 30% increase in club membership and recognition from the college administration.

- **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.