Sathiya Narayanan Venkatesan

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EDUCATION

North Carolina State University   Aug. 2023 – Dec. 2025
MCS, Computer Science   *Raleigh, NC*
- Coursework: Algorithms, Neural Networks, Cloud, Automated Software Engineering.; 4.0/4.0 GPA

Anna University   Aug. 2019 – Apr. 2023
BE, Computer Science Engineering   *Chennai, India*
- Coursework: Artificial Intelligence, Advanced Java Programming, Data Structures, DBMS; 9.3/10 GPA

TECHNICAL SKILLS

- **Languages :** Java; Go; Python; Java script; Scala; Rust; HTML; CSS; SQL; Lua;
- **Libraries & Frameworks :** Spring Boot; Angular; React JS; Docker; Kubernetes; Rest API; Kafka;
- **Tools :** SAST; DAST; Git; Linux; AWS; SonarQube; OWASP dependency Checker;

WORK EXPERIENCE

Zoho Corporation   Jul. 2022 – May. 2023
Software Engineer Intern   *Chennai, India*
- Designed and developed a bug reporting web application by incorporating an **open source** library called FFMPEG to add video and audio editing features resulting in an increase in user satisfaction by 15%.
- Optimized the video recording functionality using javascript ***Media Recorder API***, achieving an 80% increase in the accuracy of recorded bugs.
- 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.
- Conducted extensive analysis of the software supply chain, utilizing static and dynamic application security testing tools such as **ZAP**, resulting in a 40% reduction in high-severity vulnerabilities.

PROJECTS

Few Shot Learning | *Artificial Intelligence*   Jun. 2024 – Jul. 2024
- Improved an active learning **surrogate model** by adeptly updating the learner for every new data instance and yielding results, either rivaling or aligning with state-of-the-art techniques.
- Synthesized datasets to the above learner to enable it to perform different machine learning tasks such as NLP.

Slash | *Python, Java Script, PostgreSQL*   Sep. 2023 – Nov. 2023
- Built a web application that scrapes the most popular e-commerce websites using **beautiful soup** package.
- Resolved challenges related to data consistency, resulting in a 20% improvement in data accuracy.

Early Detection Of Alzheimer's Disease | *Machine Learning*   Jan. 2024 – Mar. 2024
- Trained a **CNN** model using *TensorFlow, pandas, and NumPy* to diagnose different stages of Alzheimer's from MRI reports. Constructed a dataset of 6400 MRI images after skull stripping the MRIs using the FSL library.
- Attained an accuracy of 93% when tested on a dataset of 2000 MRI images with a cross-entropy loss function.

Mapease | *Java, Spring Boot, Angular, SQL*   Feb. 2024 – Apr. 2024
- Streamlined monitoring of seasonal disease spread by tracking the movement of the livestock.
- Spearheaded a web application with a Spring Boot backend using JPA for data persistence and an Angular frontend featuring interactive maps built with **Leaflet** module in Angular.

LEADERSHIP & EXTRACURRICULAR

- *Maitri* Indian Graduate Student Association: Vice President , Deployed an open source photo library application on AWS for convenient picture sharing..
- *Hackclub :* President, organized competitive programming competitions and hackathons.
- **Interests** : competitive programming; road trips; basketball; NBA; Valorant; hiking; Formula1;