RAMIYA SHREE SESHAIAH

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EDUCATION

The University of Illinois at Chicago **Masters in Computer Science** **GPA:3.66/4.0** **Jan 2021 - Dec 2022**
Coursework: Computer Algorithms, Software Development For Mobile Platforms, Introduction to Machine Learning

Anna University - India **Bachelors in Computer Science and Engineering** **CGPA: 8.70/10** **July 2016 - May 2020**
Coursework: Operating System, Data Structures, Internet Programming, Cloud Computing, Object Oriented Design and Programming, Database Management Systems, Distributed Systems, Artificial Intelligence, Software Engineering

SKILLS

Languages/Libraries/Tools: Java, JavaScript, C++, PHP, Python, Node.js, React, Angular, Express, XAMPP Server, REST APIs, Django, Drupal, MongoDB, MySQL, Firebase, scikit-learn, pandas, numpy, Shell, Heroku, Git, Jira

PROFESSIONAL EXPERIENCE

Graduate Assistant **Advanced Cyberinfrastructure for Education and Research - UIC** **April 2021 - Present**
- Resolving technical issues faced by 500+ UIC researchers related to parallel processing, job scheduling, workload management, software, hardware in Linux system servers on HPC clusters.
- Spearheading a project to improve the SEO of the ACER website in order to increase the quantity and quality of traffic through organic search engine results.
- Implementing the Data Storage Finder module using Drupal and deploying on Docker Containers.

Software Engineering Intern **Ethna Attributes Pvt Ltd** **May 2019 - July 2019**
- Developed a predictive android health monitoring application that evaluated the smart band parameters by leveraging an accuracy of 85% through IoT and Machine Learning.
- Established a firebase connection with the mobile app that displays alert pop-ups in an emergency.

Research Assistant **Anna University** **Nov 2018 – May 2019**
- Prepared a data preprocessing pipeline for the flchain dataset which has 7874 samples and 9 features
- Achieved 75% accuracy by training and performing hyperparameter tuning of Multi-Layer Perceptron model for predicting graft survival.

TECHNICAL PROJECTS

Tracker application - MERN stack **March 2021**
- Designed and programmed a web application tracking system that provides a user an easier interface to track both their job application and expenses.
- Integrated secured user authentication module via login with email using **JWT and Google OAuth Authentication**.

Deep See Crime - An AI-based crime monitoring system **Aug 2020**
- Trained an Anomaly detection model with a precision of 92% using **3D Convolutional Neural Networks.**
- Built a web application for a crime monitoring system using **Django, Restful API, and SQLite Database**.

Symptoms based disease prediction using decision tree and electronic health record analysis **May 2020**
- Generated a summary of health records using **NLP (NLTK libraries - Corpus & Tokenizers)**
- Attained 86% accuracy using the **Decision Tree Model** to predict the most relevant diseases based on symptoms.
- Created a **Python Flask** web application for processing and retrieving the prediction results.

Silent-horn: A smart web app for hearing impaired people **Sept 2018**
- Implemented a web application for accessing beneficial information and tracking medical records using **PHP, JavaScript, MySQL**, **HTML, and CSS**
- Provided accessibility feature using a sound sensor to alert external noise beyond 60dB using visual notification.

Atrocity Case Management and Monitoring **March 2018**
- Coded a web application to manage different user roles, profiles, cases, notification of new updates, and alert messages using **JavaScript, PHP, MySQL, and Google Cloud Platform**.
- Automated the data flow, enhanced the management, documentation, and monitoring of 5000 case files.

ADDITIONAL EXPERIENCE AND AWARDS

- **Participated and Organised 10+ hackathons: Winner** of Smart India Hackathon 2020, **Top 20** in Yale CBIT Healthcare Hackathon, **Participant** in MIT Hacking Medicine.
- **Research Paper Presentation: Real-time spontaneous abortion prediction and detection using IoT & ML**
  - **Winner** of International Centenary Technical Conference of Institute of Engineers India.
  - **Best Presentation Award** and **Best Paper Award** for presenting the paper at 9th ICRDET-2019
- **Published** paper entitled **Symptoms based disease prediction using decision tree and electronic health record analysis** in European Journal of Molecular & Clinical Medicine – Scopus Indexed.
- **Mentored** 50+ students by conducting counseling sessions on various self-improvement topics.