

## MAHALAVANYA SRIRAM

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<https://github.com/MahalavanyaSriram>

### EDUCATION

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**The University of North Carolina at Charlotte** – Charlotte, NC      GPA – 4.0/4.0      **January 2020 – Present**  
Master of Science in Computer Science

**Sastra University, India**      GPA - 3.7/4.0      **June 2013 – May 2017**  
Bachelor of Engineering in Electronics and Communications

### SKILLS

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**Languages/Framework:** Java, SQL, Python, HTML, CSS, JavaScript, Angular 4+, Android, Machine Learning, NLP, Data Science, GIT, Bootstrap, ReactJS

### TECHNICAL EXPERIENCE

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**Software Analyst, Aspire Systems Pvt Ltd, Chennai, India**      **June 2017 – August 2018**

- Worked as a full stack developer across various projects using Angular 4 and Java
  - Played a key role in performance improvements like decreasing page load response time
  - Worked on Dev-Ops and automated the CI/CD process of software development
  - Solved many critical production bugs in a very fast and efficient manner
- Developed E-Commerce website for various countries across the globe for the Client Samsung
  - Built critical web modules like Payments, and Transactions using ReactJS
  - All the code was backed up by unit test cases and thus ensured bug free code was deployed to production environment

**Intern, Aspire Systems Pvt Ltd, Chennai, India**      **January 2017 – March 2017**

- Worked as a full-stack developer for an in-house project called Deliverypedia - project management system which can keep track of Statement of Work (SOW), Milestones Achieved, etc. The restful web-service layer was developed in Java while the frontend was developed in Angular JS. Extensively used Hibernate in the data access layer.

### GRADUATE PROJECTS

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- **Conference Management System:** A web-based application based on MVC architecture that keeps track of multiple conference proceedings. This automated system helps the researcher, conference chair and the reviewers in their respective activities with ease. Used HTML5, CSS, Django and PostgreSQL
- **Alumni Web Interface:** Developed web-based software that makes Alumni and Student interactions easy. Reunion with alumni and hiring opportunities can be made using the web interface. Developed in Angular 8, Spring Boot and MySQL.
- **Natural Language Processing with Disaster Tweets:** The main aim of the project is to distinguish if a tweet talks about a real disaster or not. This is for a competition hosted by Kaggle and the dataset consisted of 10,000 hand classified tweets. Various models were employed like a Naive Bayes classifier, SVM, LSTM and BERT models. Also used complex visualization tools such as Scatter text for EDA.
- **Influences of Food consumption and health factors on COVID-19 fatalities:** The goal of the project is to predict how food consumption and health factors influence the COVID-19 fatality rates around the world. Data were scaled and Unsupervised learning (Clustering) was performed to see how different countries are grouped based on food consumption, health factors, and COVID death rates.
- **Home Credit Risk Analysis:** Project is to classify the repayment ability of loan applicants based on various financial metrics other than credit history. Dataset for this project was massive and lot of preprocessing was done before employing ml models. Fuzzy C-Means clustering, and Adaptive network-based fuzzy inference systems were used to classify borrowers into various risk categories. Multiple custom activation functions were created to improve accuracy.
- **Book Recommendation Systems:** Built recommender systems in python for good read books dataset. Implemented multifarious systems in both collaborative and content-based approaches. Further, the algorithms were executed in a distributed manner using spark ML on the AWS EMR cloud.