

# Srisanmathi Ramachandran

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## SUMMARY

**SOFTWARE ENGINEER** - Creative minded professional with a keen interest in Software Development. Hands-on experience in application development using Java and JavaScript. Ability to quickly adapt to new technologies and excel in collaborating with peers.

## TECHNICAL SKILLS

**Languages** : Java 8, JavaScript (ES6), TypeScript, Python, SQL, HTML5  
**Frameworks** : NodeJS (Express), ReactJS, Angular, CSS3, React Native, Spring Boot  
**Tools** : Git, GitHub, Jira, Postman, Swagger, Selenium, Mocha, Junit, Linux, Docker, Kubernetes  
**Databases** : MySQL, MongoDB, FireStore  
**Cloud Technologies** : AWS(EC2, S3, RDS, Lambda, API Gateway), Google Cloud(Firebase), Azure, Digital Ocean, Heroku

## EDUCATION

**Master of Science in Computer Science** May 2020  
University of North Carolina at Charlotte, Charlotte, NC GPA: 3.9/4.0  
**Bachelor of Engineering in Computer Science** May 2018  
Kumaraguru College of Technology, Tamil Nadu, India GPA: 3.3/4.0

## PROFESSIONAL EXPERIENCE

**Graduate Teaching Assistant** Jan 2020 – May 2020  
University of North Carolina at Charlotte, NC  

- Assisted head faculty for the Database Systems (SQL, NoSQL, AWS) graduate course and involved in classroom teaching
- Increased class performance by encouraging active class participation and mentoring students

**Software Developer Intern, Resolve** May 2019 – Aug 2019  
Columbus, Ohio  

- Worked on an Agile (Scrum) Development team to deliver regular updates to business team and project managers
- Developed a mobile application for Android and iOS platform using React Native framework
- Interacted with Firebase (Authentication, Cloud Fire Store, Cloud Functions, Cloud Storage) for backend functions
- Used Git for version control and Jira for project tracking

**Graduate Research Assistant** Jan 2019 – May 2019  
University of North Carolina at Charlotte, NC  

- Worked on a research project using Wi-Fi sensing to identify humans based on body shape and movement patterns
- Used Angular JS along with angular material library and visualized the status of networking components using d3.js

**Software Engineering Intern, Astra Infosys** Mar 2018 – May 2018  
Coimbatore, India  

- Worked with a team of 5 members to develop and maintain Spring Boot enterprise Java applications
- Developed SQL queries, views, stored procedures, indexes, events and triggers to efficiently retrieve data
- Performed automation using Selenium Web Driver to conduct functional testing

## RELEVANT ACADEMIC PROJECTS

**Amazing Places Finder** (Angular 8, NodeJS, MongoDB, Swagger, Microsoft Azure, Digital Ocean) Feb 2020  

- Developed a single page MVC application to display places of interest using Angular 8, NodeJS/ Express and MongoDB
- Performed Unit testing using Mocha, validated and authorized users using JWT tokens
- Used web search capabilities of Bing by fetching news articles about a place from Microsoft Azure News Search API
- Documented the code by creating Open API specification for the RESTful API using Swagger
- Deployed the application on Digital Ocean CentOS Linux droplet using Nginx and PM2

**Cinemax Movie Portal Application** (ReactJS, Spring MVC, Spring Boot, MySQL, Postman) May 2020  

- Created a web application using ReactJS and Spring Boot to store and display the list of popular movies
- Connected to MySQL database using Spring Data JPA and performed unit testing using Junit framework

**Ticketing Tool** (MySQL, MySQL Work Bench, NodeJS/Express, AWS RDS) Dec 2018  

- Implemented a ticketing tool for IT organizations to keep track of the tickets raised using MySQL relational database
- Refined user stories and designed conceptual and logical data models using ER and UML diagrams
- Implemented stored procedures, triggers, indices, events and transactions and generated RESTful APIs using NodeJS

**City Explore Planner Application** (Java, Android) Nov 2019  

- Developed a trip planner to add trips, add new places in the trips, delete places and to display a map of the trip
- Interacted with Google Places and Maps API to get list of suggested places and draw a path using Google Maps API