

# NEHA P. MALI

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<https://neha-mali.github.io/nehaweb.github.io/>

## SUMMARY

Recent graduate with Master's in Computer Science, looking to leverage my experience building responsive and scalable software applications to solve interesting problems with excellent communication skills. Involved in entire Software Development Lifecycle (SDLC) including design, development, testing and code review.

## EDUCATION

**University of Texas at Arlington** **Arlington, Texas**  
Master of Science in Computer Science August 2019-May 2021  
**Relevant Coursework:** Distributed Systems, Web Data Management, DS and Algorithms, Software Engineering

**Finolex Academy of Management and Technology** **Mumbai, India**  
Bachelor of Engineering in Electronics and Telecommunication July 2013-May 2017

## SKILLS

- Languages: C, Java, Python, JavaScript, HTML, CSS, PHP
- Applications: NetBeans, Eclipse, WordPress, Tableau, Visual Studio, GitHub, Git, phpMyAdmin
- Database: MySQL, SQL, Postgres
- Cloud Services: AWS, Microsoft Azure, IBM Cloud
- Others: REST API, Bootstrap, Spring Boot, Laravel, Flask, Microsoft SQL Server, SQLite
- Frameworks: React, Django

## WORK HISTORY

**Mindcurrent - Data Science Intern** **Portland, Oregon**  
Stress Level Analysis, Prediction, and Visualization December 2020 - February 2021

- The project involved the statistical stress analysis for the users on daily basis and designed charts for data visualization and analysis using Tableau.
- Wrote python script to predict stress level and discover patterns for the user's stress data.
- Developed Tableau dashboard to showcase the relations between stress level and different factor that affects the stress level in daily life as well as the daily stress level performance.

## ACADEMIC PROJECTS

**Earthquake Finder Web Development on cloud** **Summer 2020**

- Developed an earthquake application using **Python, Flask** Framework to visualize the earthquake data and to find details about earthquake impacted cities from the cloud server (IBM, Azure and AWS).
- Performed caching using **Redis** on **Microsoft Azure** for faster execution of **SQL** queries that improved scalability and system performance by 40%. Hosted the application on AWS cloud with load balancing and autoscaling for high performance.

**Centro Augusto Mijares Web Development** **Spring 2020**

- Developed a full stack web application using **HTML, CSS, PHP, JavaScript** to manage and streamline the NGO's system for users and administrators. Remodeled the application to MVC architectural pattern using **Laravel** for integration with tools for making web application faster. Utilized **WordPress** to create and update the blogs for website.
- Queried data for the purpose of receiving user information upon request, registering new users upon request, listing all blog posts, allow current users to insert new blog posts, and allow the user to update or delete their current blog posts.

**Fitness Food Recipe Finder Application** **Fall 2020**

- Designed **React** based front-end web app with state management, built responsive layout with **Bootstrap** and **JavaScript**. Developed interactive **UI** using **HTML, CSS** to provide easy searching of food recipes.
- Utilized food **API** for the purpose of receiving food recipe information upon request, listing all recipes with nutrients content and allow the user to select recipe based on calorie requirements.

**Multi-Client Chat Server** **Fall 2019**

- Developed a multithreaded server to handle n-number of clients simultaneously and ensure data consistency across the nodes. Embedded two-phase commit logic for distributed transaction processing to coordinate commit or rollback of the transaction. Chat server was developed in **Java**, GUI was done using **Swing** and TCP was used for networking.
- Mutual Exclusion was implemented using centralized coordinator algorithm, events and queues to avoid race condition amongst all clients.