

# LAKSHMI GAYATHRI RANGARAJU

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<https://github.com/LakshmiGayathri19>

## Education

### Clemson University

Clemson, SC, USA

Master of Science, Computer Science (3.92/4)

August 2022 - May 2024

- **Coursework:** System Admin and Security, Network Technologies and Security, Foundations of Software Engineering, Machine Learning, Data Mining, Deep Learning in computer vision, Statistical Methods, Applied Data Science, Machine learning - Implementation and Evaluation.

## Technical Skills

<b>Languages:</b>	Python, Java, C, C++.
<b>Libraries:</b>	NumPy, Pandas, <b>PyTorch</b> , Sci-kit Learn, Matplotlib, Seaborn.
<b>Backend/Testing Frameworks:</b>	Spring, Dagger, JUnit, Mockito.
<b>Cloud Technologies:</b>	<b>Amazon Web Services</b> - SQS, Lambda, SNS, EC2, CloudFormation.
<b>Web Development:</b>	HTML, CSS, Bootstrap, React, Plotty Dash, <b>SQL</b> .
<b>Tools:</b>	Github, <b>Microsoft Powerpoint</b> , <b>Microsoft Excel</b> .
<b>Platforms:</b>	Windows, Linux.
<b>Certifications:</b>	Business English (BEC) at vantage level by Cambridge, Google Cloud Computing Foundations, Blockchain Architecture Design and Use Cases, Deep learning specialization.

## Relevant Experience

### Clemson University

Clemson, SC

Graduate Research Assistant

September 2022 - Present

- Collaborated with Dr. Da Li, Assistant Professor in Civil Engineering department to improve the existing search engine. The improved search engine **increased** the effectiveness of the search process by **30%** providing as it allowed users to apply filters to their search results.
- Currently working with Dr. Adam Hoover from Electrical Engineering department to develop a mobile and watch application. The applications collect the sensor data to help users to track the intake of number of kilo calories.
- **Technologies** involved in these projects are - Machine Learning, Plotty- Dash, Python, **Android development**, Java.

### Amazon

Hyderabad, India

Software Development Engineer

August 2021 - July 2022

- **Boosted** the privacy compliance of a service by **10%**, by developing well designed and tested code for back end.
- Devised good quality test cases which **improved** backward compatibility and the API workflow by **30%** during an internal service framework migration.
- **Raised the Operational Excellence bar** of my team by identifying root causes for issues in our services and by taking future action items to reduce the recurrence of the same issue, and by reviewing peer's code.
- **Improved** developer productivity by **20%** by **designing** an automated notification system **from scratch** to ping service on-calls about paged messages. And strategically migrated off the legacy system.
- **Contributed** to Engineering Excellence by automating the process of copy pasting the configurations from one service environment to another, which **improved** developer productivity by **20%** while creating new service environments.
- **Technologies** involved in these projects are – Java, Spring, Dagger, AWS, Junit, Mockito, Git.

### Amazon

Hyderabad, India

Software Development Engineer - Intern

January 2021 - August 2021

- Reduced the manual effort of collecting basic information of issues from clients by **40%** by automating the process through a new, efficient, and well-tested Model-View-Container (MVC) application.
- **Technologies** involved in this project are – **React**, Java, Spring, Git, Junit, Mockito.

## Other Experience

### Academic Project

Hyderabad, India

Timely

March, 2018

- Created a **PHP-based** website integrated with an **SQL** database, designed to streamline delivery center operations by automating and optimizing the allocation of deliveries. This **well designed system** effectively categorizes deliveries based on routes and customer availability slots, ultimately reducing manual workload by **20%**.